



For Grades 7-8

Game Development | App Development | Animation Computational Thinking | Coding





Why Lets Unbound's Semester Program?

Balanced learning with 2-3 classes per week for 12, 24 or 48 weeks.



Choose what You love from Game and App Development, Websites Web Games and Web Apps, Python, Java, AI/ML and so much more.

Always be in sight of our expert mentors with our 1-1 personalised live sessions.



Dive into the fascinating world of computational thinking, not just coding.

Have access to workshops, hackathons and other events conducted regularly.



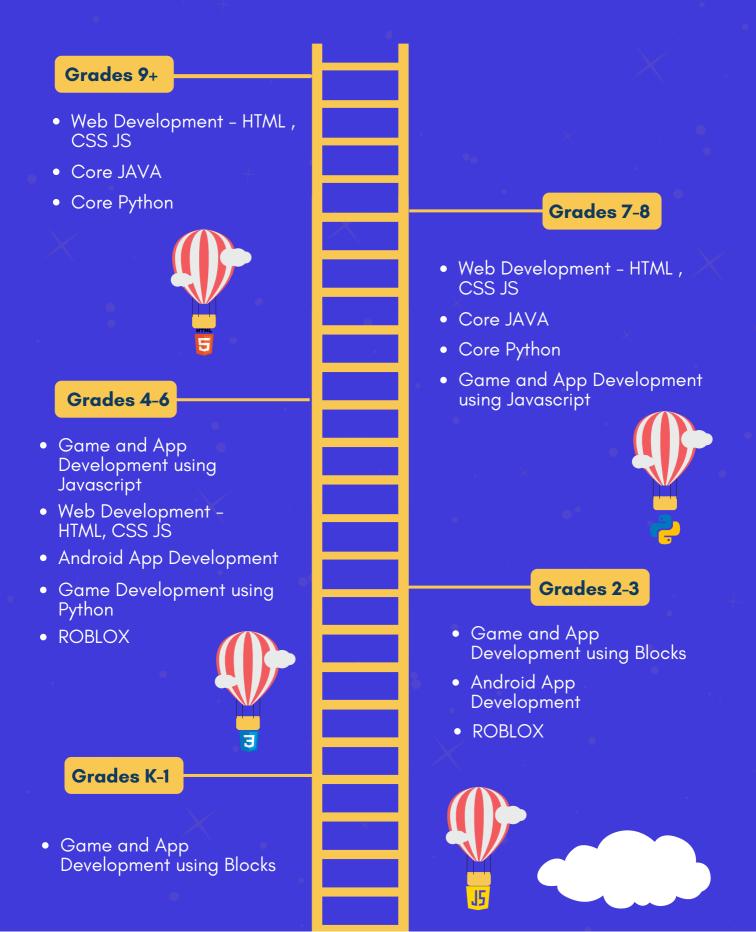
BLOCK CHAIN CERTIFICATES

HACKATHONS

WEEKEND WORKSHOPS AND POTENTIAL UNLOCKED

Unbounded Journey of Coding

Age appropriated Pathways to serve the individual needs of the Students



Grades 7-8

- Balanced learning with 2-3 classes per week for 12, 24 or 48 weeks.
- Choose what You love from Game and App Development, and so much more.
- Always be in sight of our expert mentors with our 1-1 personalized live sessions.
- Dive into the fascinating world of computational thinking, not just coding.
- Grade appropriate curriculum structure delivered by expert mentors.
- Develop logical and computational thinking skills.
- Regular assessments & Student Reports.

$\mathbf{X}^{\mathbf{i}}$		Grades
Courses	Page No	9+
Game & App Development using Javascript	1	Grades 7-8
Web development using HTML ,CSS and JS	3	Grades
Core Python	5	4-6
Core Java	9	Grades 2-3

Grades K-1



Game & App Development using JavaScript

(Animation, Game & App Development using Javascript)

Beginner | Grade 7-8 | Age 12 to 13

Course Outline: Children will learn abstraction and will be able to implement abstraction to create advanced apps and embed API. At the end of the course, students will be able to design and code their own games/apps and share it with family and friends.

Session	Key Concept	Projects	
	Level 1 (1 to 24 Ses	sions)	
1 to 8	Variables and Random Numbers : Shapes, Variables, Sprites, Text, Random Numbers, Draw Loop	Captioned Scene Other Projects	
9 to 16	Booleans, conditionals and user inputs: Sprite Movement, Boolean and Conditionals, If-else, User Input- Mouse and Keyboard Input, Velocity, COllision Detection	Dress up the Character Other Projects: Animation, Interactive Card Game	
17 to 24	Complex Movement and Collision: Complex Sprite Movement, Collision, Game Development Process	Cool Carrom Game Other Projects: Pass the Hurdles, Space Run Game, Bunny Chef Game	
	Level 2 (25 to 48 Sessions)		
25 to 32	UI/UX, sequencing with turtle and design elements: UI/UX, front-end, sequencing with turtle, design elements and its properties, debugging, Multiple Screens, onEvent	Theme Based Flashcard App Other Projects	

Session	Key Concept	Projects
33 to 40	Functions and Variables: Inbuilt and user defined functions, Return statement, Variables and Mathematical Expressions, Function Parameters	Build a Super Hero Other Projects: Whatsapp Clone
41 to 48	Drop Down Menu, UI and Design: Drop Down Menu, User Input, Boolean and if-else	7 8 9 6 3 2 1 6 0 0 0 0 0 Calculator Other Projects: Phone lock screen, tic tac toe
	Level 3 (49 to 80 Se	ssions)
49 to 56	Hands on Project	Emoji Builder Other Projects: Rock paper scissors, spell bee app
57 to 64	Lists: Lists and its operations, Practica Application of lists	Browser Other Projects: Quiz app, chat bot, Option Adder, Reminder App
65 to 72	Loops: For Loop, While Loop, Traversal, Timed Loop	Random ball Game Other Projects
73 to 80	Database: Data, Database, Inputs and Data Sets, Practical Life Projects	Leaderboard Project Other Projects



Web Development

Web Development using HTML, CSS and Javascript

Intermediate | Grade 7-8 | Age 12 to 13

Course Outline: The curriculum is designed specifically for teens and it starts from no-code to a super junior web developer. Start with the front-end by learning HTML & CSS. And then master all the basic concepts of HTML, CSS & JS.

Session	Key Concept	Projects	
	Level 1 (1 to 24 Ses	ssions)	
1 to 8	Fundamentals of HTML: - HTML Structure, Tags & Attributes, Texts & Styles, Lists, Images & Videos	Human Evolution Other Projects: Indian states and Languages, The Universe, & Gallery Portfolio	
9 to 16	Introduction to Tables: - Links, Indentation, Text Formating, Tags & Tables	Fashion Blog & Recipe Book Other Projects:: Spheres of the Earth, etc.	
17 to 24	Introduction to Forms: - Tables, Marquee tag & HTML Forms	facebook Facebook Login Page Other Projects: Registration Form	
	Level 2 (25 to 48 Sessions)		
25 to 32	Fundamentals of CSS: - CSS Basics, Specificity & Selectors, Comments & Background, Font & align attributes	Restaurant Blog Other Projects: Types of Vitamins, Sources of Electricity	

Session	Key Concept	Projects
33 to 40	CSS Features: - List & Link, Command line Instructions, Background, Border, Margin, Padding, Box Model & Colors in CSS	Types of Cell (Plant & Animal Cell) Other Projects: Sense organs, Glands in our body
41 to 48	Properties in CSS: - Typography, Float, Dropdown, Opacity, Navigation Bar, Text & Overflow in CSS	Chemistry in Everyday Life Other Projects: Paint Store, E-commerce Shopping Website & Travel Blog
	Level 3 (49 to 80 Se	ssions)
49 to 56	Fundamentals of JavaScript:- JavaScript Basics, Output, Statement, Features & Syntax in JavaScript, JavaScript Comments, Variables & Identifiers, Const & Let, Operators, Datatypes & Function	Create a Collapsible Other Projects
57 to 64	Introduction to Event, String & Number:- JavaScript Object, Events & Strings, String Methods, Number and its methods	Countdown Timer Other Projects
65 to 72	Introduction to Arrays:- JavaScript Number Methods, Arrays – Arrays Methods – Array Sort	To-do List Other Projects: Instagram login Page,Music Band Webpage
73 to 80	Hands on Projects	Rock- Paper- Scissors Other Projects: , 2D Game, Ratings & Sliders,Scroll



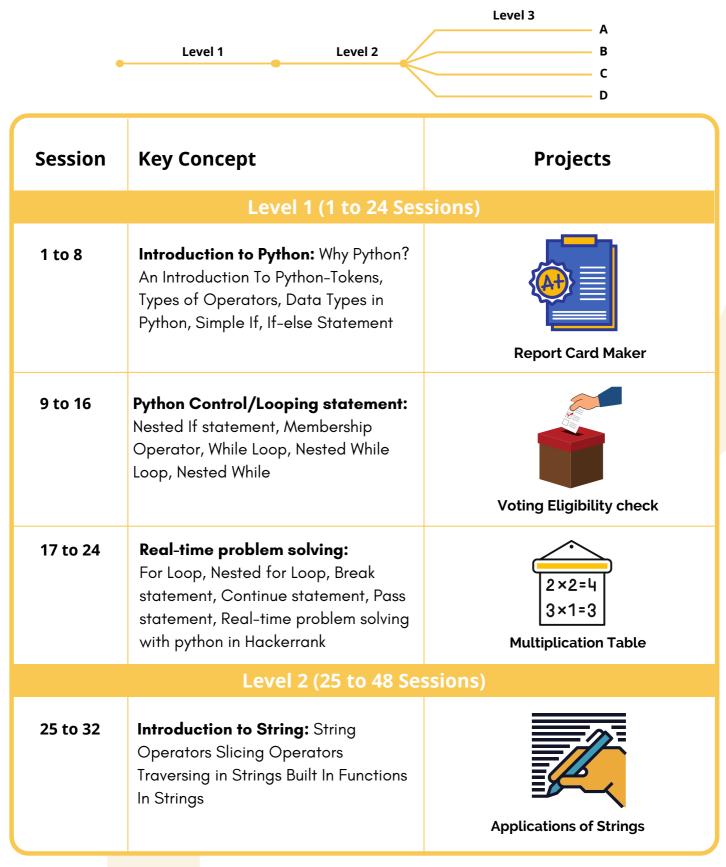


Core Python

(Real life application of Python)

Advanced | Grade 7-8 | Age 12 to 13

Course Outline: Python is widely used across various companies like Netflix, Google, Instagram, etc. Learn Python from Scratch to solve real-life problems and build dynamic Mobile applications.



Session	Key Concept	Projects	
33 to 40	Concepts of List: Introduction to List & Tuples Operations with List Introduction to Matrix Dictionary Set	Get a string and print it, reverse a string program, string concatenation, Getting an array & printing elements,	
41 to 48	OOP Java: Classes/Objects Class Attributes Class Methods Modifiers Encapsulation Polymorphism Abstraction	Sorting Array, Searching elements in array, reverse an array, Finding minimum & maxiimum element in array, Getting an matrix & printing elements, Sorting matrix, Searching elements in matrix, reverse row elements in matrix, Findind minimum & maxiimum element in Matrix, Matrix Transpose, Declare a basic class with object, Add functions and attributes to the class, Preform runtime polymorphism and compile time polymorphisim, Perform abstraction of functions	
Leve	el 3 A - App Development using	Kivy (49 to 80 Sessions)	
49 to 56	Kivy Widgets: Checkbox, drop down, popup, buttons, spinner & animation, progress bar	Checkbox, drop down, popup, buttons, spinner & animation, progress bar	
57 to 68	Kivy basic Projects: Login using kivy, scatter & page layout, conditional statements, calculator & stopwatch	Login using kivy, scatter & page layout, conditional statements, calculator & stopwatch	
69 to 80	Kivy Advanced Games: Flappy game, Ping pong, create shapes, sorting using kivy	Flappy game, Ping pong, create shapes, sorting using kivy	
Leve	Level 3 B - Data Structures using Python (49 to 80 Sessions)		
49	Python Array LinkedList(CLL,SLL,DLL) Operations with the Sets & Maps Data structures	Python - DS Introduction & Environment setUp Revision on Arrays, Lists, Tuples A detailed Study on Dictionary A detailed Study on 2D arrays & Matrix Sets & Maps Linked List Operations in LinkedList Stacks Queue Advanced Linked List Circular linked list	



Session	Key Concept	Projects
57 to 68	Detailed concepts like Stack,Queue, Heap Tree with BST & graph is covered along with several operations. In addition to this an overview on Algorithm Design is studied along with several other algorithms like Divide & Conquer Recursion Tower Of hanoi BackTracking & N- Queen Algorithm	Binary tree Search Tree Heaps Graphs Graph Operations Algorithm Design Divide & Conquer Recursion Tower Of hanoi BackTracking N- Queen Algorithm
69 to 80	All the sorting & searching algorithms are analyised in detail	Seaching Algorithm - Linear Search Seaching Algorithm - Binary Search Sorting Algorithm - Bubble Sort Sorting Algorithm - Merge Sort Sorting Algorithm - Insertion Sort Sorting Algorithm - Shell Sort Sorting Algorithm - Selection Sort Graph algorithm - DFS Graph algorithm - BFS Algorithm analysis & complexities
Level	3 C - Game Development using P	ygame (49 to 80 Sessions)
49 to 56	Pygame basics: Basic Sprite in Pygame, Geometric Drawings, Adding Image, Key Movement, Text and Font , Sprite Movement, Input Models	Basic Sprite in Pygame, Geometric Drawings, Adding Image, Key Movement, Text and Font , Sprite Movement, Input Models
57 to 68	Pygame basics: Ping pong, starfield, steering game, event list, drawing shapes	Ping pong, starfield, steering game, event list, drawing shapes
69 to 80	Pygame basics: Collision, Motion Equations, Vector basics & Sum, Pixel Array & Scrolling in pygame	Collision, Motion Equations, Vector basics & Sum, Pixel Array & Scrolling in pygame

Session	Key Concept	Projects
Le	evel 3 D - Al and ML Developme	nt (49 to 80 Sessions)
57 to 68	Machine Learning and Data processing classification and regression	
69 to 80	Random Forest, KNN Algorithm and Super Vector Machine	
49 to 56	Naive Bayes and Decision Tree	



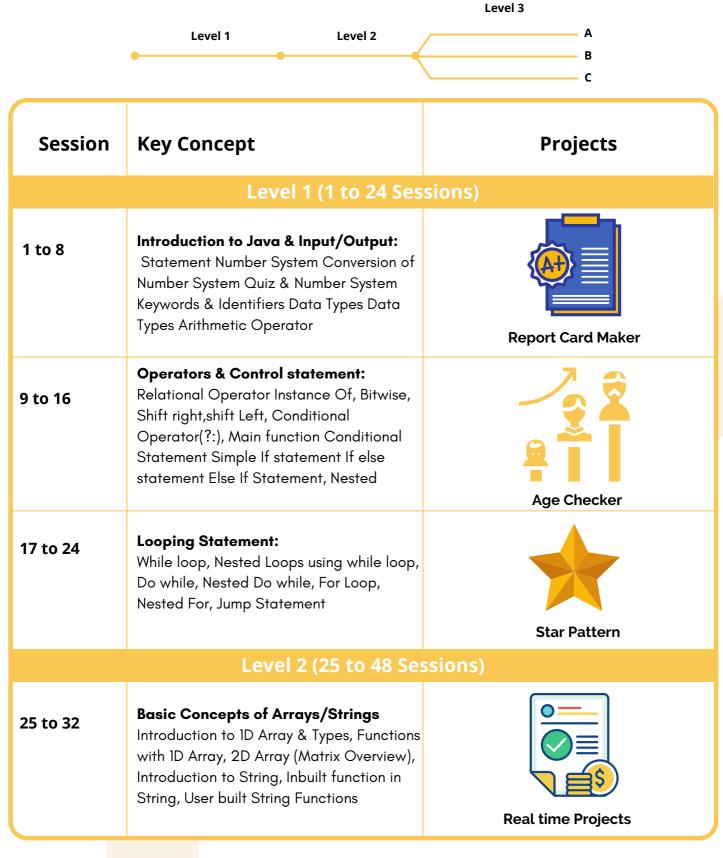
Core Java!

(Animation and Game Development using Blocks / Javascript)

Advanced | Grade 7-8 | Age 12 to 13

Course Outline: The camp curriculum helps kids transform their imagination into games Kids could choose to use Blocks or Javascript as a part of the camp.

The projects are aligned to academics. By the end of the camp, students will be able to create multiplayer games, animations as well as short stories which can be shared with family and friends.



Session	Key Concept	Projects
33 to 40	Introduction to Functions: Define A Functions (Methods), Call A Java Methods, Java Method Parameters, Java Method Overloading, Java Scope, Java Recursion	VOTE Voting Eligibility Checker
41 to 48	Java OOP: Java Classes/Objects, Java Class Attributes, Java Class Methods, Java Modifiers, Java Encapsulation, Java Polymorphism, Java Abstraction	A B C X X X Online Quiz
Lev	/el 3 A - Data Structures using Ja	ava (49 to 80 Sessions)
49 to 56	Java Array List LinkedList Operations with the Sets & Maps Interface	JAVA - DS Introduction Introduction to ArrayList ArrayList Operations A detailed Study on ArrayList Sets & Maps Linked List Operations in LinkedList Advanced Linked List
57 to 68	Detailed concepts like Stack,Queue, Heap Tree with BST & graph is covered along with several operations. In addition to this an overview on Algorithm Design is studied along with several other algorithms like Divide & Conquer Recursion Tower Of hanoi BackTracking & N- Queen Algorithm	Stack Operations On Stack Queue Operations On Queue Introduction toTree BST BST Graphs Graph Operations Graph traversal - bfs Graph traversal - dfs Application of graphs
69 to 80	All the sorting & searching algorithms are analyised in detail	Divide & Conquer Recursion Tower Of hanoi Seaching Algorithm - Linear Search Seaching Algorithm - Binary Search Sorting Algorithm - Bubble Sort Sorting Algorithm - Insertion Sort Sorting Algorithm - Selection Sort Sorting Algorithm - Merge Sort merge sort application Sorting Algorithm - Quick Sort Quick sort application
Lev	vel 3 B - Android App Developme	ent (49 to 80 Sessions)
49 to 56	Basic XML along with DVM & R. Major components in Android App is built	Introduction To Android Development Using Java My first Project with XML DVM & R file Android Screen Orientation Android Widgets Toast class in Java & Quiz Android Toggle class Android Checkbox class Android RadioButton Android AlertDialog Android Spinner



Session	Key Concept	Projects
57 to 68	Major views and bars available in Android App along with other components is built	AutoCompleteTextView Android ListView RatingBar & Webview DatePicker & SeekBar TimePicker & AnalogClock Alarm Project Android progress bar ScrollView Working on Images TabLayout TabLayout with FrameWork SearchView
69 to 80	Fully Complete Application along with Integration with google map API. In the end the student will be able to make a detailed application with future integration on database is done	Android Google Map Android Google Map Displaying Current Location Android Google Map Search Location using Geocoder Android Application that writes data to the SD Card Android example of integrating Google reCAPTCHA Android QR Code Scanner Android Barcode Scanner Volley Library - Registration, Log-in, and Log-out Volley Library - Registration, Log-in, and Log-out
Leve	l 3 C - Backend in Web Developr	ment (49 to 80 Sessions)
49 to 56	The 3 Tier Application is created and a detailed structure on MVC pattern(Model view controller) is provided. A deep drive into Backend structure is made & students will get good understanding on using MySQL	Web Fundamentals - HTML/CSS Web Fundamentals - JS Project - Form Validation Archeitectural Pattern (MVC) XML Overview Introduction to JDBC Query Language/Table MySQL - Query Language Project - Login Page Project - Login Page
57 to 68	HTTP Request & respo se along with JSP & Servlets is completed with cookies and session tracking concepts	Creating & excution of servlets HTTP Request/Response Session Tracking Cookies Project - Session Tracking Project - Session Tracking Introduction to JSP JSP scripting Elements Implicit Objects in JSP JSP Directive Elements JSTL
69 to 80	All the Structures from frontend and backend is combined together resulting in a high end project	Project - CRUD on DB Project - CRUD on DB Customer Management system (Part 1) Customer Management system (Part 2) Employee Management system (Part 1) Employee Management system (Part 2) Pizza Delivery Management System (Part 1) Pizza Delivery Management System (Part 2) Student School Portal (Part 1) Student School Portal (Part 2) Student School Portal (Part 3)



How will my child benefit from your programs?

LETS UNBOUND courses teach critical 21st century skills, including computer programming, critical thinking, and problem solving. Students learn how to logically sequence events, create playable games & apps, tell good stories, and model real situations. They also learn computational thinking by developing algorithmic and design thinking abilities. After learning the fundamentals, kids can transition to higher end of languages like Python, JavaScript within the LETS UNBOUND learning system.

My child is too small to take up computer based programs & skill development, I am unable to decide?

LETS UNBOUND is a 1:1 Online platform and our courses are designed for kids of the age group 6-14. The classes are taken by High quality certified mentors & experts who are trained specially to ensure that the kids understand the topics properly. Your Child specifically builds their algorithmic thinking via the course helping them for the future especially 21st century skills.

Can my child share an account & learn together?

Multiple kids cannot share the same account, because they will overwrite each other's work. We offer referral bonuses when you add additional children to our programs.

What all programs are run by LETS UNBOUND?

LETS UNBOUND is a learning ecosystem to provide technology enabled platforms for every child, making them confident & prepare for all the right set of skills needed to succeed in the 21st century. We offer programs from Computational Thinking, Logical Reasoning, Problem Solving based also few of our programs in future will cater to mathematics, entrepreneurship, hobbies etc.

What prior knowledge of coding is required by my child & where all we avail these?

Our Programs do not require prior coding experience to learn. All Programs are designed for school and extra-curricular.

What technical requirements are needed to run Programs?

Desktop or Laptop, Chrome web browser, Broadband internet connection (min 10 Mbps).

Why should my child learn coding?

Your child should learn to code because:

- Coders are in high demand considering future high paying jobs in the 21st century.
- Coding provides a competitive advantage, improves problem solving and persistence
- Coding knowledge allows students better understand the world







TEAM WITH 25+ YRS OF EDTECH EXPERIENCE & ALUMNI FROM



66 In the new economy, computer science isn't an optional skill, it's a basic skill, I strongly believe every child has to have the opportunity to learn this critical skill. We are inundated with technology and I don't want our young people to just be consumers, I want them to be producers of this technology and to understand it, to feel like they're controlling it, as opposed to it controlling them.



Barack Obama



© 2022 LETS UNBOUND EDUCATION TECHNOLOGY. All rights reserved. Privacy Policy | Terms and Conditions

