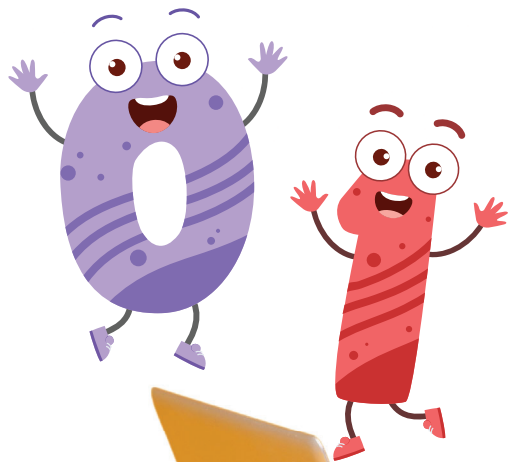




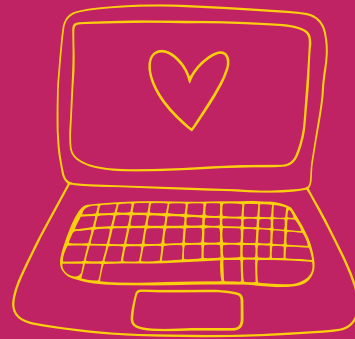
# RobART

CREATIVE CODING

COURSE FOR KIDS



# Coding Should Be Fun & Exciting!



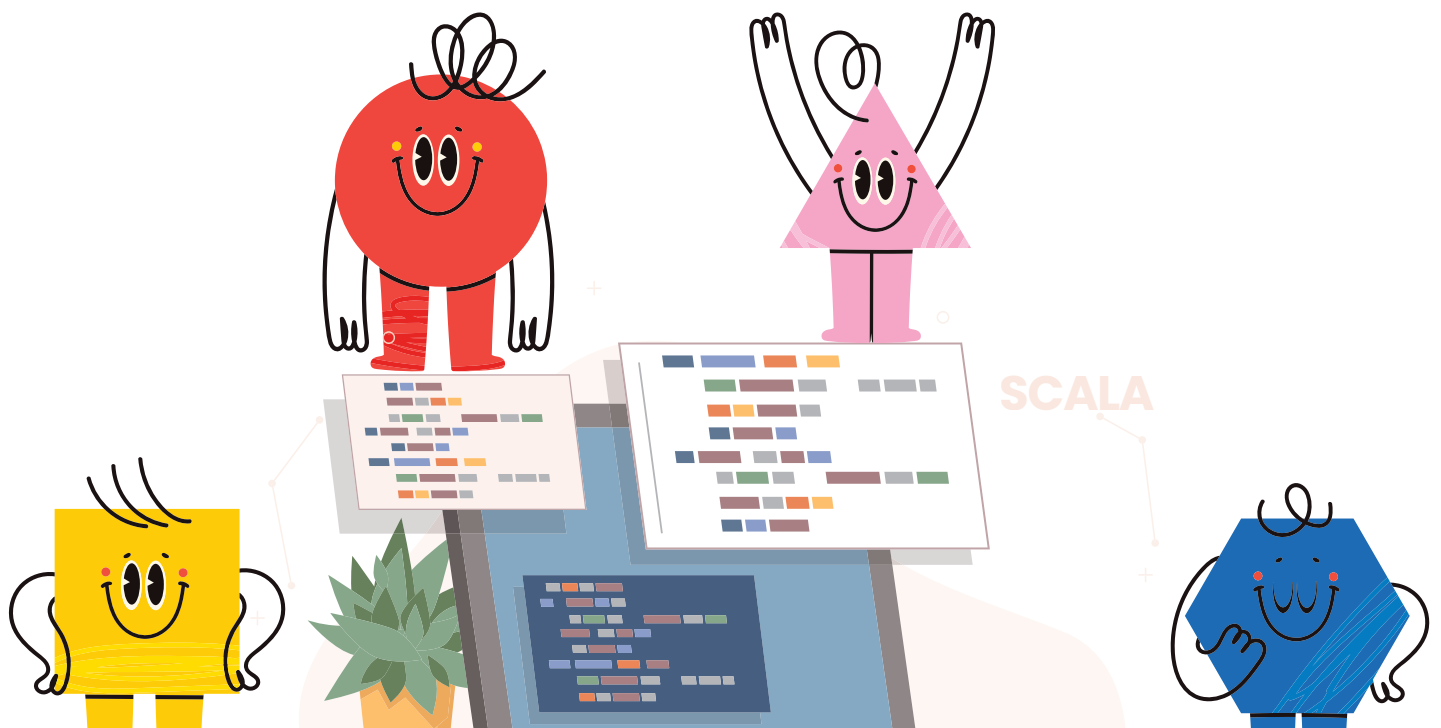
**Kids should learn  
to code art to exercise  
their creative &  
analytical capabilities.**

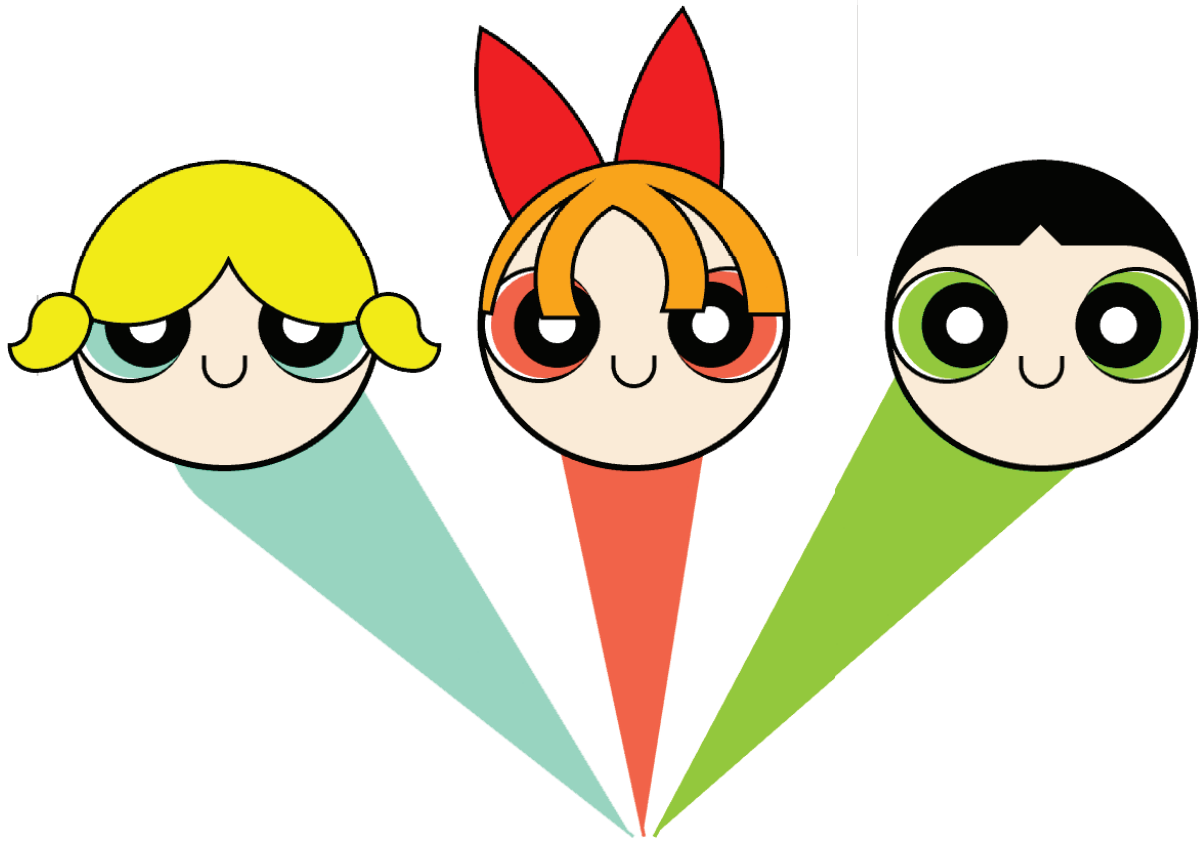
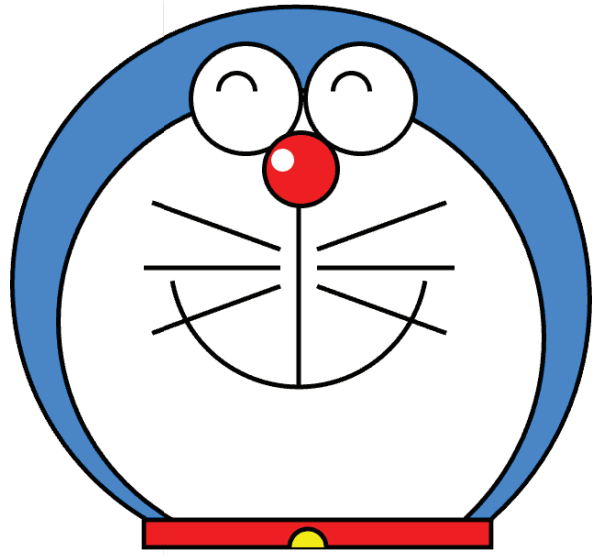


# RobART

Is a Creative  
Coding Method.

With RobArt Kids learn to  
create mathematical  
shapes & patterns by  
coding in Scala Language.





**A few of the shapes created  
using RobArt!**

**Kids can create  
whatever they  
imagine using  
RobArt.**



**Creating these art pieces gives  
them a sense of achievement  
and makes them more confident.**

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**COURSE DURATION** 3 Months • 36 Classes

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**BATCHES & TIMINGS**

**Weekdays - WDA**

Mon - Wed - Fri  
5:00pm to 6:00pm

**Weekdays - WDB**

Tue - Thu - Sat  
6:00pm to 7:00pm

**Weekends - WEA**

Sat - Sun  
10:00am to 11:30am

**Weekends - WEB**

Sat - Sun  
2:00pm to 3:30pm

*Max 15 kids in each batch*

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**GROUPS**

**Little Buddies**

3rd Grade to 5th Grade

**Big Buddies**

6th Grade to 8th Grade

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**TEACHING & LEARNING**

**Online** Instructor led interactive training with great engagement

Learning Management System for Revision and Practice

Interactive student clubs for sharing creations and inspiration

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**SHOWCASE**

An online showcase to present kid's creations

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**ASSESSMENT & CERTIFICATION**

Test for coding knowledge

Projects

Certification for Qualified Kids from {igebra.ai}

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**FEE**

**Rs.25000/-** Fee can be paid in 2 installments

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### INTRODUCTION TO ROBART

Introducing RobArt Platform  
Input & Output Selection  
Introducing Turtle and Fun Facts about it  
Basic Scala Rules  
Saving Projects

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### MATH OPERATIONS

Addition, Subtraction, Multiplication & Division

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### BASIC TURTLE COMMANDS

Drawing Commands  
savePosHe & restorePosHe  
Additional Commands  
Properties  
Basic Scala Commands using Text

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### GEOMETRIC SHAPES

Square, Rectangle, Circle, Triangle, Rhombus  
and Semi Circle

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### POLYGONS

Pentagon, Hexagon, Heptagon, Octagon,  
Nonagon and Decagon

---

### CO-ORDINATE SYSTEM

X, Y Co-ordinates, Origin (0,0) - [Center]  
and setPosition command

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### VARIABLES & VALUES

Difference between val & var

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### PICTURES

Picture Creation, Picture Transformation, and  
Picture Layout

---

### ANIMATION

Joystick, Keyboard Keys, Mouse, & setAnimationDelay

---

### CANVAS

Introduction to Canvas and Canvas Bounds

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### CONDITIONS

if Else

Nested Conditional: What If this OR that OR something else

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### BASIC DATA TYPES

Int, Double, String, Boolean, Color, Picture, Unit and Collections (Array)

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### DATA COLLECTIONS

Sequence (Seq), Array, ArrayBuffer, Range, Map -> HashMap, Set -> HashSet, Option and Tuple

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### DEFINE FUNCTIONS WITH PARAMETERS

Computing with pure functions and data flow

Immutable data (and data structures)

Functions as values

Comparison of the imperative and functional way of doing something (with an example)

---

### GAMES

Picture collisions and bouncing

Pictures - responding to the keyboard, joystick, and mouse clicks

Making a game - Hunted

ArrayBuffers and HashMaps for gaming

Hunted 2 - increasing the number of hunters without any code change

Hunted 3 - adding background and character images

---

### PROJECTS - FLAGS

Japan, Bangladesh, Palau, Somalia, Vietnam, Switzerland, Argentina, India, China, Ukraine, Russia, Netherlands, Germany, Poland, Luxembourg, Hungary, Morocco and UAE

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### PROJECTS - SCIENCE

Multiple Turtles  
Turtle Solar System

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### PROJECTS - FLOWERS/TREES/ NATURE

Rangoli Sun, Crystal Flower, 5 Flowers, Rainbow Flower, Netherlands Flowers, Lotus, White Dandelion Colorful Flower, Long 3D Flower, Grass 3D flower, SunFlower, Flower Mehendi, Flower, Drawing Nature in a Circle, Scenery and Abstract Scary Flower

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### PROJECTS - SIMPLE & ABSTRACT DESIGNS AND OBJECTS

Kite, Plus, 4 Squares, Virus, Semi Circle, Hexene, Rainy Codes, Bouncy Ball, Mandala, Simple Star, Cute Circle Design, Overlapping Circle Frame, Hut, Castle, Black & White Circle, Umbrella, Rocket, Abstract Wheel, Anxious Face, Ice Cream and Hypno Wheel

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### LOGOS

Google Picture Logo  
Rotating Pokemon  
YouTube  
Olympics Rings

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### ASSESSMENT & CERTIFICATION

Test for coding knowledge  
Project Assignment

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# Why Creative Coding is Good for Kids



# RobART

Makes Kids Write  
Real Code, Not Just  
Drag & Drop Objects!

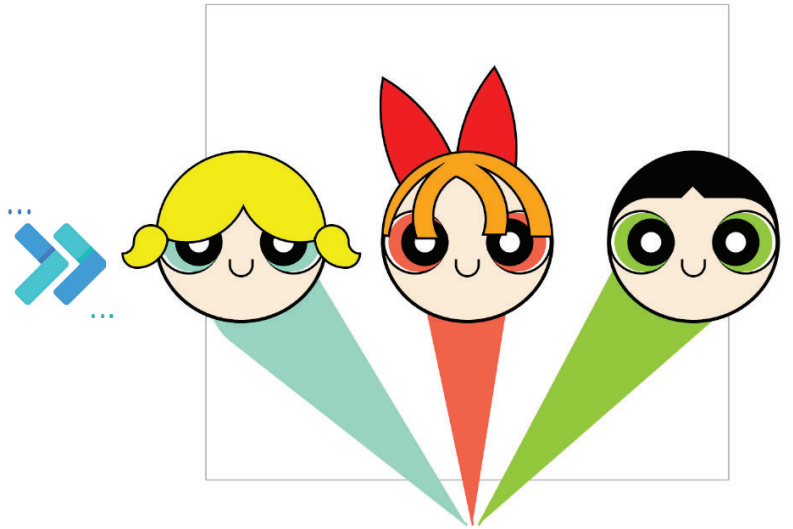
## INPUT

```
drawStage(white)
//setSpeed(fast)
val cb = canvasBounds

val ellipse_len=150
val ellipse_wid=140
val circle_radius1=55 // for circle 1 & 2
val circle_radius3=50 // for circles 3 & 4
val circle_radius5=40 // for circles 5 & 6
val circle_radius7=20 // for circles 7 & 8

val pic_light1 = Picture
{
  left(75)
  forward(530)
  right(180,100)
  right(21)
  forward(560)
}
```

## OUTPUT



And More Lines of Code...

More Code Samples at

<https://www.igebra.ai/robart>







**Kids Fall in Love with Creative Coding!**

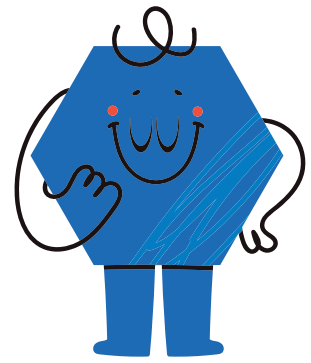
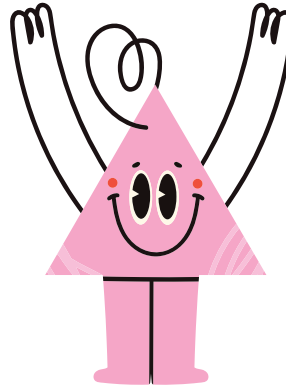
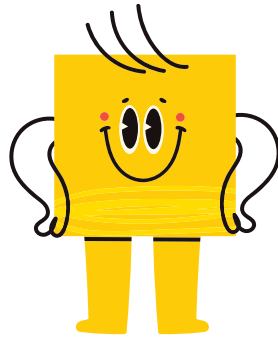




**We Would Love to  
Show Your Kid  
the Beauty of  
Creative Coding  
with RobArt!**

**Schedule a FREE Demo**

**+91 8121040955**



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