

For Grade - 2<sup>nd</sup>



Presented by Alimtehaan



# Learn From The Best!!



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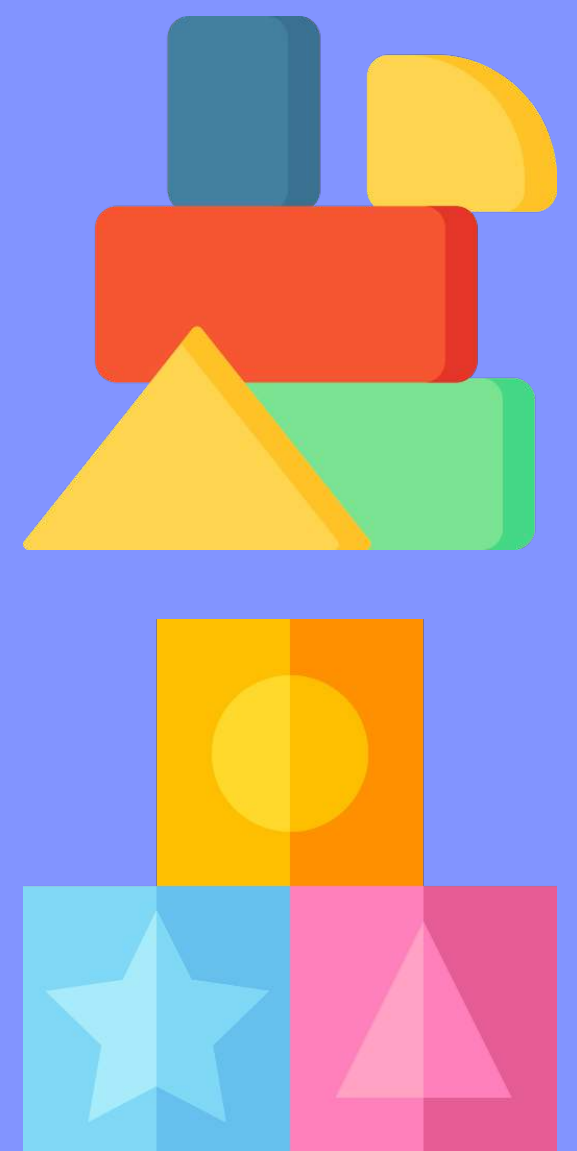




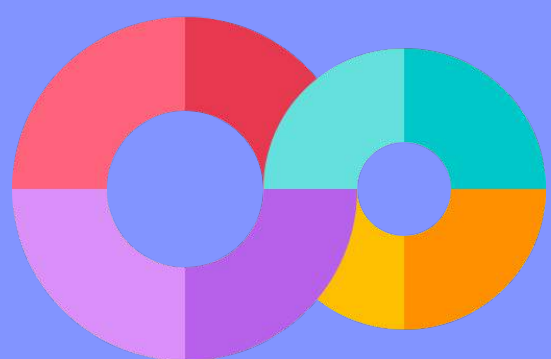
# Course Outline

## Intermediate Block Coding

- Introduction to block coding concepts
- Understanding the different types of blocks and their functions
- Introduction to Scratch programming environment
- Creating simple Scratch projects using basic blocks



## Introduction to Scratch



- Using loops and conditionals in Scratch programming
- Creating custom sprites and backgrounds
- Creating and animating 2D characters
- Creating and animating objects and props

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# Course Outline

## Digital Art and Design

- Adding sound effects to animations
- Drawing and painting using Scratch
- Creating interactive games such as maze games, platformers, or quizzes
- Understanding game mechanics such as scoring, timers, and levels



## Interactive Games and Simulations



- Designing levels and challenges for games
- Creating interactive stories and choose-your-own-adventure games
- Understanding more advanced robotics concepts
- Understanding sensors and inputs in robotics



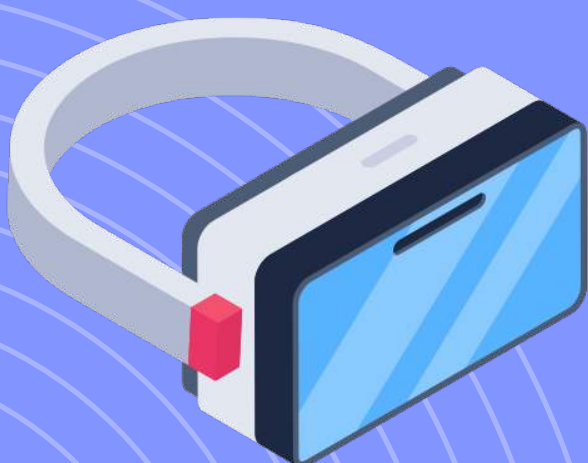
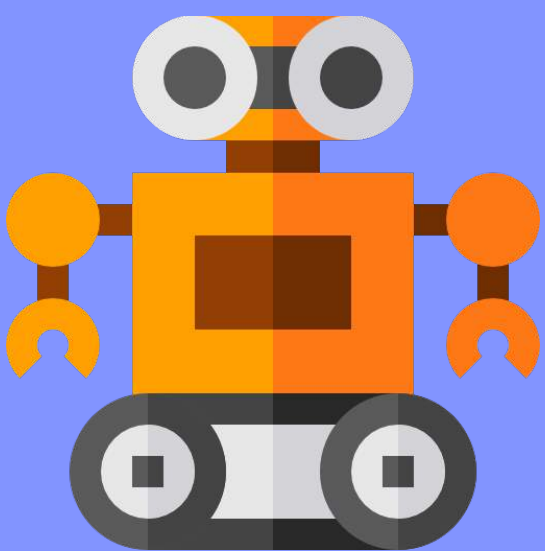
# Course Outline

## Block Coding

- Creating simple math animations using block coding
- Using coding to visualize math concepts
- Introduction to science concepts using block coding
- Creating simple science simulations using block coding



## Robotics and Automation



- Understanding the possibilities of VR and AR in various industries
- Creating simple VR and AR experiences using block coding
- Understanding game engines and tools
- Creating 3D games using game engines and block coding



Animation

Game Development



# Learning Outcomes



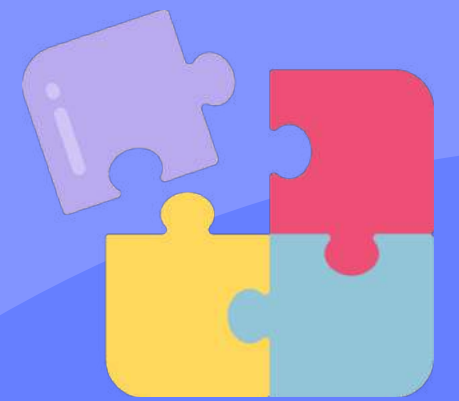
Block Coding



Robotics

# Key Points

Get accustomed to block coding



Create art using code



Make a game of your choice



Operate a robot in simulators

