

Lesson 8 – Making Advance Games



Now let us see some Advance Gaming Projects
Gaming projects with Devices
&
Projects as per Students Imagination

Project 1 – Invaders from the Sky

This is comparatively a harder game. It involves:

- Multiple enemy planes.
- One own plane.
- Enemy bullets firing at you.
- Own bullets firing at the enemy.
- Score of bullet hits on own plane and number of lives left.
- Score of your hits on enemy planes.
- Background music.
- Once you understand its coding, you could make similar & complex games.

The storyline of the game is:

- Aliens are invading the earth in the deserts of Nevada.
- Only one plane remains at the air base and is being piloted by you.
- Though the fight is tough you take up the challenge because your plane can sustain up to three hits.
- If you get more than three hits the game will be over.
- Let us see how long you can keep the invaders at bay?

Method of coding.

In this game the alien planes require no control. They will come from random locations to attack you.

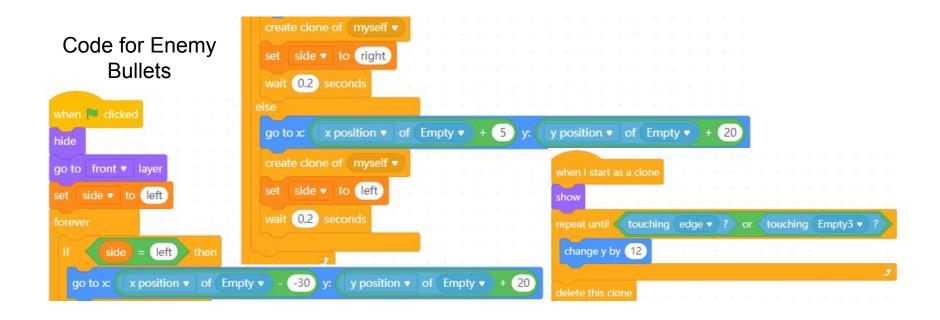
You must control your plane by using the left and right arrows. When you use the left arrow, the plane moves left and when you use the right arrow it moves right.

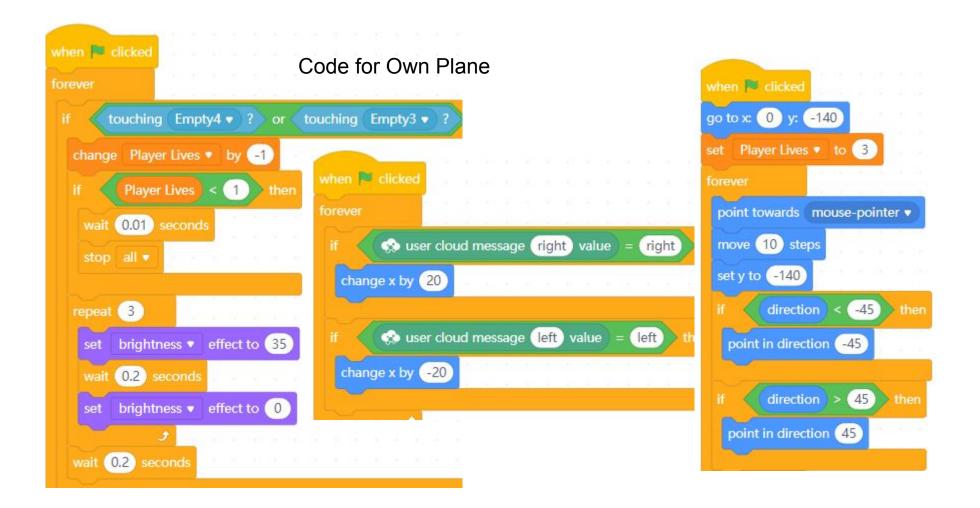
Your bullets are fired in the direction in which your plane is facing. You also need to add background music and place it in a forever loop.

Stage Explanation









```
when start as a clone

Code for Own Bullets

show

point in direction item controller of Director 

go to x item controller of xposition 

y: item controller of yposition 

when clicked 
item controller of xposition 

y: item controller of yposition 

repeat until  

y position 

repeat until  

y position 

delete this clone

go to x x position 

of Empty3 

- 8 y: x position 

of Empty3 

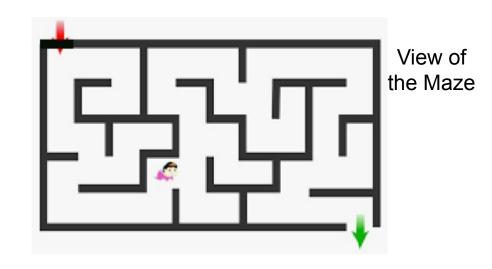
+ 20
```

Project 2 – A Child Lost is a Maze

This is easier than project 1. Its story line is:

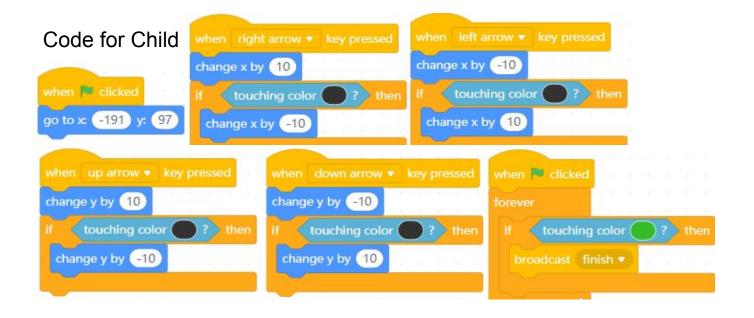
A small child is lost in a maze close to its house. You have to guide it to come out of the maze.

Project must be executed using the arrow keys. Try yourself. See code if stuck.



Code for the Maze



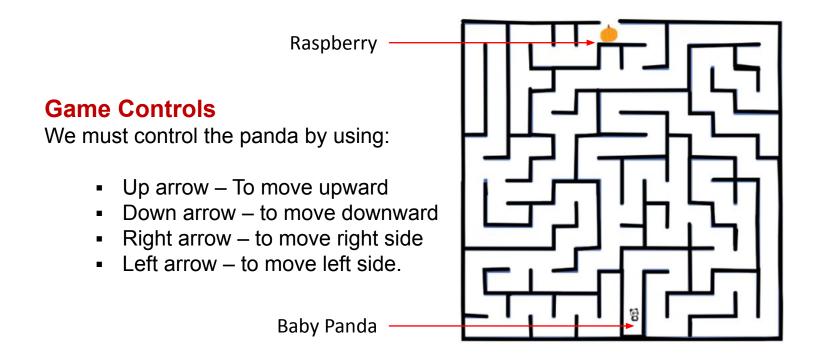


Project 3 – Maze Game Level 2

This project is similar but has a more challenging maze. Its story line is:

A small panda entered a maze in search of Raspberry. It is lost inside. You have to guide it to the raspberry.

The project must be executed using arrow keys.





Project 4 – The Flying Panda

The aim of this project is to teach the use of Gyro Sensor to control a game.

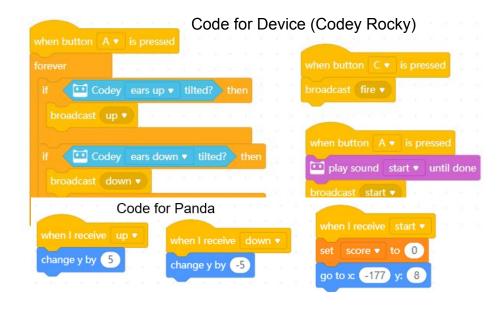
Since the virtual world of Sprites does not have sensors, we shall use a device Named Codey Rocky from Makeblock as it has a gyro sensor in it.

Game Control. In order to control the game:

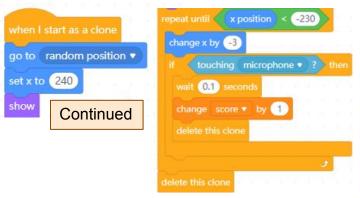
- Press button 'A' of Codey Rocky to start the game
- Control the motion of Panda by tilting Codey in upward and downward direction.
 - Move Panda upwards by facing the ears of Codey upwards.
 - Move Panda downwards by facing the ears of Codey downwards.
- button 'C' of Codey to fire bullets on enemies.

Enemy is coming from the sky & does not require any code.

Final Code







Code for Enemy (Sprite used Drum Kit)

```
when I receive start 

hide

forever

create clone of myself 

wait pick random 0.0 to 1.0 seconds
```





Code Karega India Badhega