## **SNAKE GAME**

## **Introduction**

- ➤ Snake game is one of the most popular arcade games of all time. In this game, the main objective of the player is to catch the maximum number of fruits without hitting the wall or itself. Creating a snake game can be taken as a challenge while learning Python or Pygame
- ➤ We will be using pygame to create this snake game. Pygame is an opensource library that is designed for making video games. It has inbuilt graphics and sound libraries. It is also beginner-friendly, and crossplatform.

## Steps::

- First we are importing the necessary libraries.
- ➤ **Step 2:** After importing libraries we need to initialize Pygame using **pygame.init()** method.
- ► **Step 3:** Initialize snake position and its size.
- ▶ By setting direction to RIGHT we ensure that, whenever a user runs the program/game, the snake must move right to the screen.
- ► Game Over: when users hit the boundaries
- ► When the snake hits any boundary of the window, the user loses the game. For this, we have defined a variable game\_close. When it is set to TRUE, it asks you to either play again or quit the game.
- Step 4: Create a function to display the score of the player.
- we are displaying our score using **blit**. **blit** takes two argument **screen.blit(background,(x,y)**.

```
import pygame
pygame.init()
dis = pygame.display.set mode((dis width, dis height))
pygame.display.set caption('Snake Game by Edureka')
clock = pygame.time.Clock()
snake speed = 15
font style = pygame.font.SysFont("bahnschrift", 25)
score font = pygame.font.SysFont("comicsansms", 35)
def our snake(snake block, snake list):
        pygame.draw.rect(dis, black, [x[0], x[1], snake block,
def message(msg, color):
def gameLoop():
```

```
dis.fill(blue)
    pygame.display.update()
    for event in pygame.event.get():
        if event.type == pygame.KEYDOWN:
            if event.key == pygame.K_q:
            if event.key == pygame.K c:
                gameLoop()
for event in pygame.event.get():
    if event.type == pygame.QUIT:
    if event.type == pygame.KEYDOWN:
        if event.key == pygame.K LEFT:
        elif event.key == pygame.K UP:
        elif event.key == pygame.K DOWN:
pygame.draw.rect(dis, green, [foodx, foody, snake block,
snake List.append(snake Head)
```

```
our_snake(snake_block, snake_List)
    Your_score(Length_of_snake - 1)

    pygame.display.update()

    if x1 == foodx and y1 == foody:
        foodx = round(random.randrange(0, dis_width - snake_block)

/ 10.0) * 10.0
        foody = round(random.randrange(0, dis_height - snake_block)

/ 10.0) * 10.0
        Length_of_snake += 1

        clock.tick(snake_speed)

    pygame.quit()
    quit()

gameLoop()
```