

10/25

Task 12:- Simulate Gaming concepts Using pygame.

To simulate basic concepts using pygame module by creating a simple interactive game where a player object can move with arrow keys, an enemy moves automatically, and collision detection ends the game.

Algorithm:-

1. Import and Initialize Pygame.

Import the pygame module and initialize it using pygame.init().

2. Create a player and enemy object using rectangles.

3. Move Player using arrow keys.

4. Move enemy automatically.

5. If player collides with energy show "Game over" and stop the game.

Program:-

keys = pygame.key.get_pressed()

If not game_over:

if keys [pygame.K_LEFT] and player.x > 0:

player.x += 5
if keys [pygame.K_RIGHT] and player.x < 370:
enemy.x -= 4. player.x += 5

if enemy.x < -30:

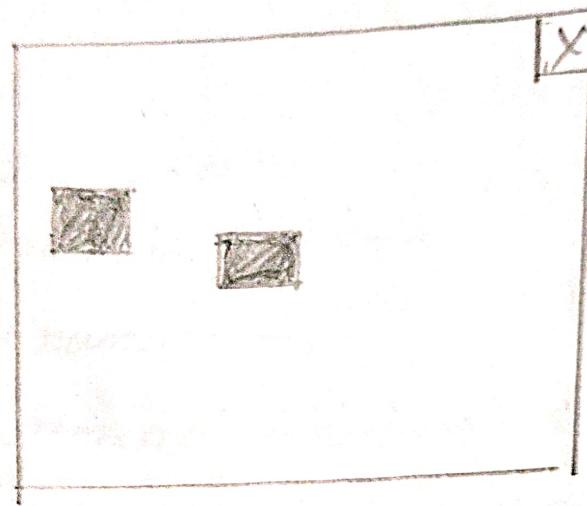
enemy.x = 400

if player.colliderect(energy):

game_over = True.

Gegeben

Winkelmaß



zu beweisen: Winkelmaß ist gleich



Input:

Use ← and → arrow keys to move.

Output:

- A window with a moving blue player square.
- A red enemy square. moves toward the player.
- On collision: "Game over" is shown.

```
win.fill((255, 255, 255)).  
pygame.draw.rect(win, (0, 0, 255), player)  
pygame.draw.rect(win, (255, 0, 0), enemy).  
if game_over:  
    text = font.render("Game over", True, (0, 0, 0)).  
    win.blit(text, (130, 130)).  
    pygame.display.update().  
    clock.tick(30)
```

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VEL TECH - CSE	
EX NO.	12
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (6)	5
TOTAL (20)	15

Result:- Thus, the ~~simulated~~ gaming concepts.
Using pygame is executed successfully.
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