MOTIONCUT

TASK-4

To Develop a text-based adventure game using Python.

Create an interactive game where users can make choices that lead to different outcomes.

```python
# Initialize the game board

board = [" " for _ in range(9)]


# Function to print the game board

def print_board():
    print("  |  |  ")
    print(f"{board[0]} |{board[1]} |{board[2]}")
    print("  |  |  ")
    print("---------")
    print("  |  |  ")
    print(f"{board[3]} |{board[4]} |{board[5]}")
    print("  |  |  ")
    print("---------")
    print("  |  |  ")
    print(f"{board[6]} |{board[7]} |{board[8]}")
    print("  |  |  ")


# Function to check for a win

def check_win(player):
    # Check rows, columns, and diagonals
    for i in range(3):
        if (board[i] == board[i + 3] == board[i + 6] == player) or \
           (board[i * 3] == board[i * 3 + 1] == board[i * 3 + 2] == player) or \
           (board[0] == board[4] == board[8] == player) or \
```

```python
        (board[2] == board[4] == board[6] == player):
            return True
    return False


# Main game loop
current_player = "X"
while True:
    print_board()
    print(f"Player {current_player}'s turn. Enter a position (1-9): ")
    try:
        position = int(input()) - 1
        if 0 <= position < 9 and board[position] == " ":
            board[position] = current_player
            if check_win(current_player):
                print_board()
                print(f"Player {current_player} wins!")
                break
            elif " " not in board:
                print_board()
                print("It's a draw!")
                break
            else:
                current_player = "O" if current_player == "X" else "X"
        else:
            print("Invalid input. Try again.")
    except ValueError:
        print("Invalid input. Enter a number (1-9).")
```

OUTPUT:

```
 | |
 | |
 | |
```

```
---------
 |  |
 |  |
 |  |
---------
 |  |
 |  |
 |  |
```

Player X's turn. Enter a position (1-9):

2

```
 |  |
 |X |
 |  |
---------
 |  |
 |  |
 |  |
---------
 |  |
 |  |
 |  |
```

Player O's turn. Enter a position (1-9):

1

```
 |  |
O |X |
 |  |
---------
 |  |
 |  |
 |  |
---------
```

```
 | |

 | |

 | |
```

Player X's turn. Enter a position (1-9):

5

```
 | |

O |X |

 | |

---------

 | |

 |X |

 | |

---------

 | |

 | |

 | |
```

Player O's turn. Enter a position (1-9):

4

```
 | |

O |X |

 | |

---------

 | |

O |X |

 | |

---------

 | |

 | |

 | |
```

Player X's turn. Enter a position (1-9):

8

```
 |  |
O |X |
  |  |
---------
  |  |
O |X |
  |  |
---------
  |  |
  |X |
  |  |
```
Player X wins!