MOTION CUT TASK 4

To create a Text-based Adventure Game.

```
# 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
```

```python
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 \
           (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):
```

1

| |

X | | |

  | |

  | |

  | |

  | |

  | |

  | |

  | |

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

2

| |

X |O |

  | |

  | |

  | |

  | |

  | |

  | |

```
 | |
```

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

6

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

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

5

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

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

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

3

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

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

7

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

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

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

4

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

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

8

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

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