

TASK 1

NUMBER GAME

```
import random

def play_game():
    # Define range and number of attempts
    min_num = 1
    max_num = 100
    max_attempts = 10

    # Generate random number
    target_number = random.randint(min_num, max_num)

    # Initialize attempts and score
    attempts = 0
    score = 0

    print(f"Welcome to the Number Guessing Game! Guess the number between {min_num} and {max_num}. You have {max_attempts} attempts.")

    while attempts < max_attempts:
        guess = int(input("Enter your guess: "))
        attempts += 1

        if guess < target_number:
            print("Too low!")
        elif guess > target_number:
            print("Too high!")
        else:
            print(f"Correct! You guessed the number in {attempts} attempts.")
```

```
    score += 1
```

```
    break
```

```
if attempts == max_attempts:
```

```
    print(f"Sorry, you've used all {max_attempts} attempts. The correct number was  
{target_number}.")
```

```
return score, attempts
```

```
def main():
```

```
    play_again = True
```

```
    total_score = 0
```

```
    rounds = 0
```

```
while play_again:
```

```
    score, attempts = play_game()
```

```
    total_score += score
```

```
    rounds += 1
```

```
    play_again_input = input("Do you want to play again? (yes/no): ").strip().lower()
```

```
    play_again = play_again_input == 'yes'
```

```
print(f"Game over! You played {rounds} rounds with a total score of {total_score}.")
```

```
if __name__ == "__main__":
```

```
    main()
```