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CSE-A

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ASSIGNMENT-2 SOLUTION(NUMBER GUESSING GAME)

```
import random
```

```
def number_guessing_game():
```

```
    number = random.randint(1, 100) # Generate a random number between 1 and 100
```

```
    attempts = 0
```

```
    print("Welcome to the Number Guessing Game!")
```

```
    print("I have chosen a number between 1 and 100. Try to guess it!")
```

```
    while True:
```

```
        try:
```

```
            guess = int(input("Enter your guess: "))
```

```
            attempts += 1
```

```
            if guess < number:
```

```
                print("Too low! Try again.")
```

```
            elif guess > number:
```

```
                print("Too high! Try again.")
```

```
            else:
```

```
        print(f"Congratulations! You guessed the number {number} in {attempts}
attempts.")

        break # End the game

except ValueError:

    print("Please enter a valid integer.")

# Run the game

number_guessing_game()
```

OUTPUT-

```
➡ Welcome to the Number Guessing Game!
I have chosen a number between 1 and 100. Try to guess it!
Enter your guess: 55
Too low! Try again.
Enter your guess: 45
Too low! Try again.
Enter your guess: 80
Too low! Try again.
Enter your guess: 90
Too low! Try again.
Enter your guess: 98
Too high! Try again.
Enter your guess: 97
Too high! Try again.
Enter your guess: 95
Too high! Try again.
Enter your guess: 94
Too high! Try again.
Enter your guess: 93
Too high! Try again.
Enter your guess: 91
Congratulations! You guessed the number 91 in 10 attempts.
```