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```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)

    number = int(input("Enter a number: '

    if number % 2 == 0:
        print(f"{number} is even.")
    else:
        print(f"{number} is odd.")
```

```
My name is Tisha R Choyal
Enter a number: 2
2 is even.
```

```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)
    number = float(input("Enter a number:

    if number > 0:
        print(f"{number} is positive.")
    elif number < 0:
        print(f"{number} is negative.")
    else:
        print("The number is zero.")
```

```
My name is Tisha R Choyal
Enter a number: -4
-4.0 is negative.
```



Tisha R Choyal



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```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)
    def is_prime(num):
        if num < 2:
            return False
        for i in range(2, int(num**0.5) + 1):
            if num % i == 0:
                return False
        return True

    number = int(input("Enter a number: "))

    if is_prime(number):
        print(f"{number} is a prime number")
    else:
        print(f"{number} is not a prime number")
```

My name is Tisha R Choyal
Enter a number: 5
5 is a prime number.



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```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)
    def is_palindrome(sequence):
        sequence = str(sequence)
        reversed_sequence = sequence[::-1]
        return sequence == reversed_sequence

    user_input = input("Enter a sequence: ")

    if is_palindrome(user_input):
        print(f"{user_input} is a palindrome.")
    else:
        print(f"{user_input} is not a palindrome.")
```

```
My name is Tisha R Choyal
Enter a sequence: 8
8 is a palindrome.
```

```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)
    num1 = float(input("Enter the first number: "))
    num2 = float(input("Enter the second number: "))

    sum_result = num1 + num2
    print(f"The sum of {num1} and {num2} is: {sum_result}")
```

```
My name is Tisha R Choyal
Enter the first number: 5
Enter the second number: 8
The sum of 5.0 and 8.0 is: 13.0
```

```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)
    def add_numbers(num1, num2):
        return num1 + num2

    num1 = float(input("Enter the first number: "))
    num2 = float(input("Enter the second number: "))

    sum_result = add_numbers(num1, num2)
    print(f"The sum of {num1} and {num2} is: {sum_result}")
```

```
My name is Tisha R Choyal
Enter the first number: 9
Enter the second number: 4
The sum of 9.0 and 4.0 is: 13.0
```

```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)
    def find_maximum(num1, num2):
        return max(num1, num2)

    num1 = float(input("Enter the first number: "))
    num2 = float(input("Enter the second number: "))

    maximum_result = find_maximum(num1, num2)
    print(f"The maximum of {num1} and {num2} is: {maximum_result}")
```

```
My name is Tisha R Choyal
Enter the first number: 11
Enter the second number: 24
The maximum of 11.0 and 24.0 is: 24.0
```



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```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)
    def find_minimum(num1, num2):
        return min(num1, num2)

    num1 = float(input("Enter the first number: "))
    num2 = float(input("Enter the second number: "))

    minimum_result = find_minimum(num1, num2)
    print(f"The minimum of {num1} and {num2} is: {minimum_result}")
```

```
My name is Tisha R Choyal
Enter the first number: 11
Enter the second number: 24
The minimum of 11.0 and 24.0 is: 11.0
```

```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)
    def generate_fibonacci(n):
        fibonacci_sequence = [0, 1]

        for i in range(2, n):
            next_term = fibonacci_sequence[-1] + fibonacci_sequence[-2]
            fibonacci_sequence.append(next_term)

        return fibonacci_sequence

    num_terms = int(input("Enter the number of Fibonacci terms to generate: "))

    fibonacci_result = generate_fibonacci(num_terms)
    print(f"Fibonacci Sequence up to {num_terms} terms: {fibonacci_result}")
```

```
My name is Tisha R Choyal
Enter the number of Fibonacci terms to generate: 7
Fibonacci Sequence up to 7 terms: [0, 1, 1, 2, 3, 5, 8]
```

```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)
    def calculate_factorial(n):
        if n == 0 or n == 1:
            return 1
        else:
            return n * calculate_factorial(n - 1)

    num = int(input("Enter a number to calculate its factorial: "))

    factorial_result = calculate_factorial(num)
    print(f"The factorial of {num} is: {factorial_result}")
```

```
My name is Tisha R Choyal
Enter a number to calculate its factorial: 4
The factorial of 4 is: 24
```



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```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)
    def calculate_gcd(a, b):
        while b:
            a, b = b, a % b
        return a

    num1 = int(input("Enter the first number: "))
    num2 = int(input("Enter the second number: "))

    gcd_result = calculate_gcd(num1, num2)
    print(f"The GCD of {num1} and {num2} is: {gcd_result}")
```

```
My name is  Tisha R Choyal
Enter the first number: 6
Enter the second number: 8
The GCD of 6 and 8 is: 2
```

```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)

    num1 = float(input("Enter the first number: "))
    num2 = float(input("Enter the second number: "))

    print(f"Before swapping: num1 = {num1}, num2 = {num2}")

    num1, num2 = num2, num1

    print(f"After swapping: num1 = {num1}, num2 = {num2}")
```

```
My name is  Tisha R Choyal
Enter the first number: 2
Enter the second number: 6
Before swapping: num1 = 2.0, num2 = 6.0
After swapping: num1 = 6.0, num2 = 2.0
```



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After swapping: num1 = 6.0, num2 = 2.0

```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)
    num_str = input("Enter a number as a string: ")

    reversed_str = num_str[::-1]
    print(f"Reversed number: {reversed_str}")
```

```
My name is Tisha R Choyal
Enter a number as a string: 5
Reversed number: 5
```

```
[ ] name = "Tisha R Choyal"
    print("My name is ",name)
    import random
    secret_number = random.randint(1, 100)
    max_attempts = 5
    attempts = 0

    print("Welcome to the Number Guessing Game!")
    print("I've picked a number between 1 and 100. Can you guess it?")

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

        if user_guess == secret_number:
            print(f"Congratulations! You guessed the correct number: {secret_number}")
            break
        elif user_guess < secret_number:
            print("Too low! Try again.")
        else:
            print("Too high! Try again.")
        attempts += 1

    if attempts == max_attempts:
        print(f"Sorry, you've run out of attempts. The correct number was {secret_number}.")
```

```
My name is Tisha R Choyal
Welcome to the Number Guessing Game!
I've picked a number between 1 and 100. Can you guess it?
Enter your guess: 98
Too high! Try again.
Enter your guess: 65
Too high! Try again.
Enter your guess: 34
Too high! Try again.
Enter your guess: 90
Too high! Try again.
Enter your guess: 76
Too high! Try again.
Sorry, you've run out of attempts. The correct number was 1.
```