

main.py



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Run

Output

Clear

```
1 def fibonacci(n):
2     if n <= 1:
3         return n
4     else:
5         return fibonacci(n-1) + fibonacci(n-2)
6
7 count = int(input("Enter the number of Fibonacci numbers to print
8 : "))
9
10 print("Fibonacci Series: ", end="")
11 for i in range(count):
12     print(fibonacci(i), end=" ")
```

```
Enter the number of Fibonacci numbers to print: 5
Fibonacci Series: 0 1 1 2 3
=== Code Execution Successful ===
```



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```
7 def is_armstrong(num, n):
8
9     if num == 0:
10         return 0
11     return ((num % 10) ** n) + is_armstrong(num // 10, n)
12
13 def check_armstrong(num):
14
15     n = order(num)
16     result = is_armstrong(num, n)
17     return result == num
18
19
20 number = int(input("Enter a number: "))
21 if check_armstrong(number):
22     print(number, "is an Armstrong number")
23 else:
24     print(number, "is not an Armstrong number")
25
```

Output

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Enter a number: 123
123 is not an Armstrong number

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Output

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```
1 def gcd(a, b):
2     if a == 0:
3         return b
4     if b == 0:
5         return a
6     return gcd(b, a % b)
7 num1 = 48
8 num2 = 18
9 result = gcd(num1, num2)
10 print(f"The GCD of {num1} and {num2} is {result}")
11
```

The GCD of 48 and 18 is 6

=== Code Execution Successful ===

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```
1 def find_largest_element(arr):
2     if len(arr) == 0:
3         raise ValueError("Array is empty")
4     largest = arr[0]
5     for num in arr:
6         if num > largest:
7             largest = num
8     return largest
9 array = [3, 5, 7, 2, 8, -1, 4, 10, 12]
10 result = find_largest_element(array)
11 print(f"The largest element in the array is {result}")
12
```

The largest element in the array is 12

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```
1 def factorial(n):
2     if n == 0:
3         return 1
4     else:
5         return n * factorial(n-1)
6
7 # Taking input from user
8 num = int(input("Enter a number: "))
9
10 # Checking if the number is negative
11 if num < 0:
12     print("Factorial cannot be found for negative numbers.")
13 elif num == 0:
14     print("The factorial of 0 is 1.")
15 else:
16     print("The factorial of", num, "is", factorial(num))
17
```

Enter a number: 5
The factorial of 5 is 120

=== Code Execution Successful ===

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1- def copy_string_recursive(source):
2- if source == "":
3- return ""
4- return source[0] + copy_string_recursive(source[1:])
5- original_string = "Hello, World!"
6- copied_string = copy_string_recursive(original_string)
7- print(f"Original String: {original_string}")
8- print(f"Copied String: {copied_string}")
9-

Output

Clear

Original String: Hello, World!
Copied String: Hello, World!


=== Code Execution Successful ===

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```
1 def reverse_string(s):
2     if len(s) == 0:
3         return s
4     else:
5         return reverse_string(s[1:]) + s[0]
6
7 string = input("Enter a string: ")
8
9
10 print("The reverse of the string is:", reverse_string(string))
11
```

Output

Clear

Enter a string: amma
The reverse of the string is: amma

=== Code Execution Successful ===

main.py



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Output

```
1 def is_prime(num, divisor=2):
2     if num < 2:
3         return False
4     if num == 2:
5         return True
6     if num % divisor == 0:
7         return False
8     if divisor * divisor > num:
9         return True
10    return is_prime(num, divisor + 1)
11
12 def generate_primes(n, current=2):
13     if current > n:
14         return
15     if is_prime(current):
16         print(current)
17     generate_primes(n, current + 1)
18
19
```

```
Enter the limit to generate prime numbers: 5
Prime numbers up to 5 are:
2
3
5

=== Code Execution Successful ===
```


an.py






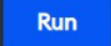
Save

Run

Output

```
def is_palindrome(s):  
    s = s.lower()  
    if len(s) <= 1:  
        return True  
    elif s[0] != s[-1]:  
        return False  
    else:  
        return is_palindrome(s[1:-1])  
  
string = input("Enter a string: ")  
  
if is_palindrome(string):  
    print("The string is a palindrome.")  
else:  
    print("The string is not a palindrome.")
```

```
Enter a string: kavi  
The string is not a palindrome.  
  
=== Code Execution Successful ===
```

main.py	 			Output
<pre>1 def is_prime(n, i=2): 2 if n <= 2: 3 return n == 2 4 if n % i == 0: 5 return False 6 if i * i > n: 7 return True 8 return is_prime(n, i + 1) 9 10 11 num = int(input("Enter a number: ")) 12 13 14 if is_prime(num): 15 print(num, "is a prime number.") 16 else: 17 print(num, "is not a prime number.") 18</pre>				<pre>Enter a number: 5 5 is a prime number. === Code Execution Successful ===</pre>