```python
#Write a program to print all the names from list whose length greater than 6
def print_names_greater_than_six(names):
    for name in names:
        if len(name) > 6:
            print(name)

# Example list of names
names_list = ["John", "Alice", "Jonathan", "Elizabeth", "Michael", "Jennifer", "Christopher"]

# Call the function with the list of names
print_names_greater_than_six(names_list)
```

Output

```
Jonathan
Elizabeth
Michael
Jennifer
Christopher
>
```

main.py

```python
#Write a program to find the sum of digit of a number

def sum_of_digits(number):
    # Convert the number to a string to iterate through its digits
    number_str = str(number)
    # Initialize sum to 0
    digit_sum = 0

    # Iterate through each digit in the string representation of the number
    for digit in number_str:
        # Convert the digit back to integer and add it to the sum
        digit_sum += int(digit)

    return digit_sum

# Example usage:
number = 12345
print("Sum of digits of", number, "is:", sum_of_digits(number))
```

Output

```
Sum of digits of 12345 is: 15
> 
```

```python
#Write a program to check a number is binary
import re

def is_binary(number):
    # Regular expression to match binary numbers
    binary_pattern = r'^[01]+$'
    if re.match(binary_pattern, number):
        return True
    else:
        return False

# Example usage:
number = input("Enter a number: ")
if is_binary(number):
    print("The number is binary.")
else:
    print("The number is not binary.")
```

Output

```
Enter a number: 011010101010
The number is binary.

>|
```

main.py

```python
#Write a program to remove vowels from string
def remove_vowels(string):
    vowels = "aeiouAEIOU"
    # Using list comprehension to filter out vowels
    result = ''.join([char for char in string if char not in
        vowels])
    return result

# Example usage:
input_string = input("Enter a string: ")
print("String without vowels:", remove_vowels(input_string))
```

Output

```
Enter a string: Samiya
String without vowels: Smy
>
```
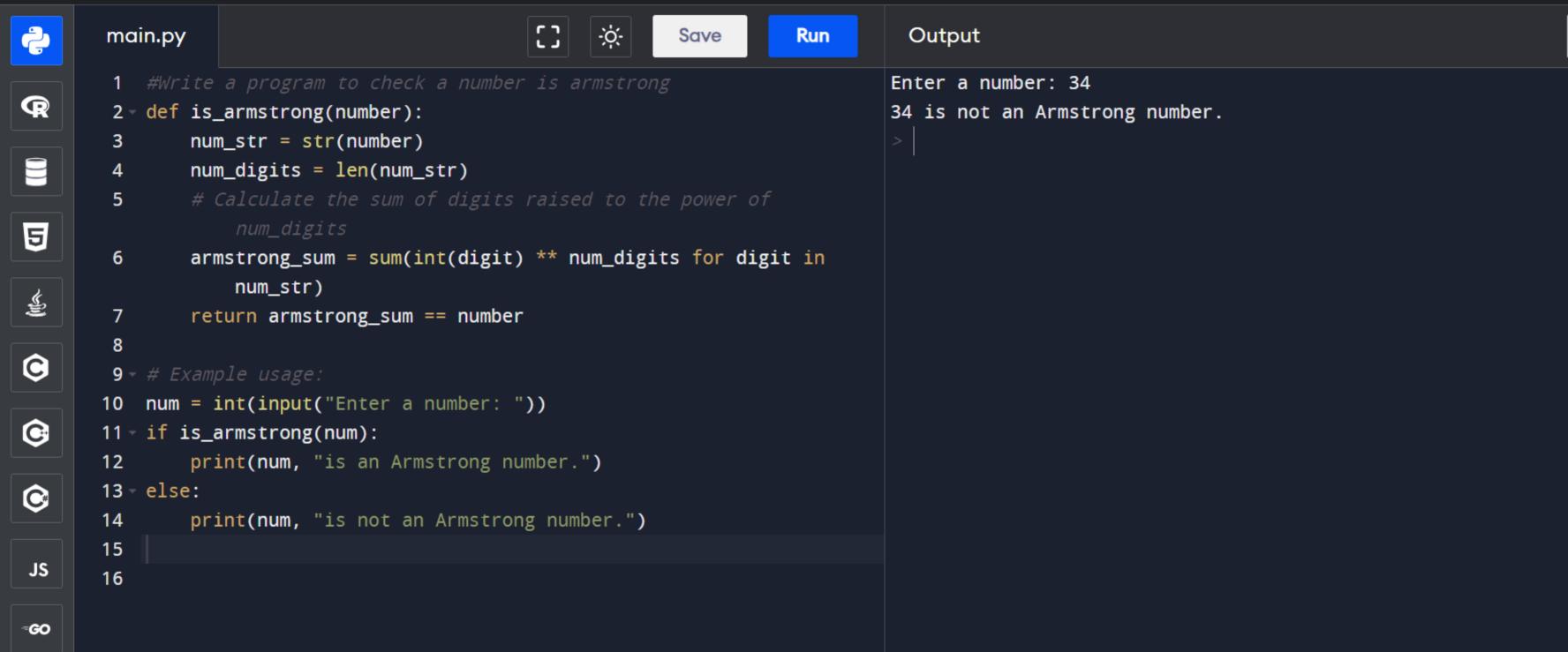
main.py

```python
#Write a program to display nth fibonacci number
def fibonacci_iterative(n):
    if n <= 1:
        return n
    else:
        a, b = 0, 1
        for _ in range(2, n + 1):
            a, b = b, a + b
        return b

# Example usage:
n = int(input("Enter the value of n: "))
print("The {}th Fibonacci number is: {}".format(n,
    fibonacci_iterative(n)))
```

Output

```
Enter the value of n: 78
The 78th Fibonacci number is: 8944394323791464
>
```

```python
#Write a program to check a number is armstrong
def is_armstrong(number):
    num_str = str(number)
    num_digits = len(num_str)
    # Calculate the sum of digits raised to the power of
        num_digits
    armstrong_sum = sum(int(digit) ** num_digits for digit in
        num_str)
    return armstrong_sum == number

# Example usage:
num = int(input("Enter a number: "))
if is_armstrong(num):
    print(num, "is an Armstrong number.")
else:
    print(num, "is not an Armstrong number.")
```

Output

```
Enter a number: 34
34 is not an Armstrong number.
>
```