1.write a calculator program in python?

```python
# Function to add two numbers
def add(num1, num2):
    return num1 + num2


# Function to subtract two numbers
def subtract(num1, num2):
    return num1 - num2


# Function to multiply two numbers
def multiply(num1, num2):
    return num1 * num2


# Function to divide two numbers
def divide(num1, num2):
    return num1 / num2

print("Please select operation -\n" \
        "1. Add\n" \
        "2. Subtract\n" \
        "3. Multiply\n" \
        "4. Divide\n")



# Take input from the user
select = int(input("Select operations form 1, 2, 3, 4 :"))

number_1 = int(input("Enter first number: "))
number_2 = int(input("Enter second number: "))

if select == 1:
    print(number_1, "+", number_2, "=",
                    add(number_1, number_2))


elif select == 2:
    print(number_1, "-", number_2, "=",
                    subtract(number_1, number_2))
```

```python
    elif select == 3:
        print(number_1, "*", number_2, "=",
                      multiply(number_1, number_2))


    elif select == 4:
        print(number_1, "/", number_2, "=",
                      divide(number_1, number_2))
    else:
        print("Invalid input")
```

2.write a program to concatenate,reverse,and slice a string?

concatenation:

```python
def reversed_string(text):

  result = ""

  for char in text:

  result = char + result

  return result



reversed_string("Hello, World!")

'!dlroW ,olleH'
```

Reverse:

```python
def reversed_string(text):

    result = ""

    index = len(text) - 1

    while index >= 0:

    result += text[index]

    index -= 1

    return result



 reversed_string("Hello, World!")

'!dlroW ,olleH'
```

slicing:

```python
greeting = "Hello, World!"
```

```
for char in greeting[::-1]:
    print(char)



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greeting[::-1]
'!dlroW ,olleH'
```

3.why is python a popular programming language?

It uses a simplified syntax with an emphasis on natural language, for a much easier learning curve for beginners. And, because Python is free to use and is supported by an extremely large ecosystem of libraries and packages, it's often the first-choice language for new developers.

4.what are the other frameworks that can be used with python?

- Bottle.
- Flask.
- Django.
- Web2py.
- AIOHTTP.
- CherryPy.
- Dash.
- Falcon.

5.full form of WSGI?

The **Web Server Gateway Interface** (WSGI, pronounced whiskey or WIZ-ghee) is a simple calling convention for web servers to forward requests to web applications or frameworks written in the Python programming language. The current version of WSGI, version 1.0.