

1. Write a Calculator program in

Python?

```
def add(P, Q):
```

```
    return P + Q
```

```
def subtract(P, Q):
```

```
    return P - Q
```

```
def multiply(P, Q):
```

```
    return P * Q
```

```
def divide(P, Q):
```

```
    return P / Q
```

```
print ("Please select the operation.")
```

```
print ("a. Add")
```

```
print ("b. Subtract")
```

```
print ("c. Multiply")
```

```
print ("d. Divide")
```

```
choice = input("Please enter choice (a/ b/ c/ d): ")
```

```
num_1 = int (input ("Please enter the first number: "))
```

```
num_2 = int (input ("Please enter the second number: "))
```

```
if choice == 'a':
```

```
    print (num_1, " + ", num_2, " = ", add(num_1, num_2))
```

```
elif choice == 'b':
```

```
    print (num_1, " - ", num_2, " = ", subtract(num_1, num_2))
```

```
elif choice == 'c':  
    print (num1, " * ", num2, " = ", multiply(num1, num2))  
elif choice == 'd':  
    print (num_1, " / ", num_2, " = ", divide(num_1, num_2))  
else:  
    print ("This is an invalid input")
```

2. Write a program to concatenate, reverse and slice a

string?#concatenate

```
x = "Python "
```

```
y = "is "
```

```
z = "awesome"
```

```
print(x + y + z)
```

#reverse

```
txt = "Hello World"[::-1]
```

```
print(txt)
```

#slice

```
b = "Hello, World!"
```

```
print(b[2:5])
```

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?Django

Flask

Web3py

CherryPy

Tornado

5.Full form of WSGI?

Web Server Gateway Interface