

## **Q1 – Write a calculator program in python**

```
def add(x, y):  
    return x + y  
  
def subtract(x, y):  
    return x - y  
  
def multiply(x, y):  
    return x * y  
  
def divide(x, y):  
    return x / y  
  
print("Select operation.")  
print("1.Add")  
print("2.Subtract")  
print("3.Multiply")  
print("4.Divide")  
  
while True:  
    choice = input("Enter choice(1/2/3/4): ")  
  
    if choice in ('1', '2', '3', '4'):  
        num1 = float(input("Enter first number: "))  
        num2 = float(input("Enter second number: "))  
  
        if choice == '1':  
            print(num1, "+", num2, "=", add(num1, num2))  
  
        elif choice == '2':
```

```
print(num1, "-", num2, "=", subtract(num1, num2))
```

```
elif choice == '3':
```

```
print(num1, "*", num2, "=", multiply(num1, num2))
```

```
elif choice == '4':
```

```
print(num1, "/", num2, "=", divide(num1, num2))
```

```
next_calculation = input("Let's do next calculation? (yes/no): ")
```

```
if next_calculation == "no":
```

```
break
```

```
else:
```

```
print("Invalid Input")
```

## **Q 2 – Write a python program to concatenate a string**

```
#Concatenate a String
```

```
str1="Hello"
```

```
print ("String 1:",str1)
```

```
str1=str1*3
```

```
print("Concatenated same string:",str1)
```

```
#Reverse a String
```

```
def reverse_for_loop(s):
```

```
    s1 = ""
```

```
    for c in s:
```

```
        s1 = c + s1
```

```
    return s1

input_str = 'ABCDE'

if __name__ == "__main__":
    print('Reverse String using for loop =', reverse_for_loop(input_str))
```

#Slice a String

```
s = 'HelloIBMIndia'

first_five_chars = s[:5]

print(first_five_chars)
```

```
fourth_to_fifth_chars = s[8:13]

print(fourth_to_fifth_chars)
```

### **Q3 – Why is python such a popular language?**

1. Python has an active, supportive community
2. Python has an active, supportive community
3. Python offers versatile web-development solutions
4. Python is well suited to data science and analytics
5. Python is widely used with IoT Technology

### **Q 4 - What are the other Frameworks that can be used with python**

- Bottle
- CherryPy
- AIOHTTP
- Dash
- Falcon
- Giotto

## **Q5 –Fullform of WSGI**

**Web Server Gateway Interface**