

ASSIGNMENT - 1

1.list : to pop,reverse,append,insert,sort?

#use numbers from 0 to 9 except 1

```
l=[0,2,3,7,8,6,4,5,9]
```

```
l.insert(1,1)
```

```
print(l)
```

#to remove first occurrence

```
l.remove(0)
```

```
print(l)
```

#insert at last

```
l.append(10)
```

```
print(l)
```

#pop last element

```
l.pop(-1)
```

```
print(l)
```

#reverse

```
print(l[::-1])
```

#sort

```
print(l.sort())
```

2.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")

```

3.Strings:

```

str1=input()
str2=input()
str=str1+str2
print(str)

#reverse
print(str[::-1])
#to_slice
print(str[1:5:1])

```

4.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.

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

- Bottle.
- Flask.

- Django.
- Web2py.
- CherryPy.
- Dash.
- Falcon.

6. Full form of WSGI?

WSGI - Web Server Gateway Interface