1. **Consider a List**

**Insert at a position**

fruits = ['apple', 'banana', 'cherry']  
fruits.insert(1, "orange")

**Print the list**

Print(list\_name)

**Remove first occurrence**

list.remove(element)

**Append**

my\_list **=** ['hello', 'to']

my\_list.append('ibm')

print my\_list

**Sort**

cars = [1,2,3]  
  
cars.sort()

**Pop**

fruits = ['apple', 'banana', 'cherry']  
fruits.pop(1)

**Reverse**

lst = [10, 11, 12, 13, 14, 15]

lst.reverse()

print("Using reverse() ", lst)

1. **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")

1. **Write a program concatenate, reverse and slice a string?**

str1="Hello"

str2="World"

print ("String 1:",str1)

print ("String 2:",str2)

str=str1+str2.

print(str)

def reverse(s):

    str = ""

    for i in s:

        str = i + str

    return str

s = "Hello IBM"

print(reverse(s))

String = 'Hello IBM'

print(String[:3])

1. **Why is python is a popular programming language?**

PYTHON was an easily understandable programing language. It has very simple syntax, which will be easier for the beginners to learn. And also it supports many libraries.

1. **What are the other frameworks that can be used with python?**

* Django
* Flask
* Web2py
* Bottle

1. **Full form of WSGI.**

Web server gateway interface