IBM Cloud assignment-1

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Q1

1)Insert Integer at position

```
In [1]: list = [12,14,16,15,19]

In [2]: #Insert element at position

In [3]: list.insert(3,15)

In [4]: print(list)
```

```
[12, 14, 16, 15, 15, 19]
```

2)Delete first occurrence of integer

```
In [7]: list.remove(15)#First occurence of 15 removed

In [8]: print(list)
```

```
[12, 14, 16, 19]
```

3)Append to end of list

```
In [9]: list.append(18)

In [10]: 1 list.append(20)

In [13]: print(list)#18 and 20 added to end of list
         [12, 14, 16, 19, 18, 20]
```

4)Sort the list

```
In [15]: a = sorted(list)

In [16]: print(a)
         [12, 14, 16, 18, 19, 20]
```

5)Pop the list

```
In [17]: list.pop(-1)
Out[17]: 20

In [18]: print(list)
         [12, 14, 16, 19, 18]
```

6)Reverse the list

In [21]:
```
list.reverse()
print(list)
```

```
[18, 19, 16, 14, 12]
```

Q2)

In [25]:
```
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
def exponent(x,y):
    return x**y
def modulo(x,y):
    return x%y
print("Select operation: \n")
print("1.Add")
print("2.Subtract")
print("3.Multiply")
print("4.Divide")
print("5.Exponent")
print("6.Modulo")
print("7.Exit")
```

```
return x%y
print("Select operation: \n")
print("1.Add")
print("2.Subtract")
print("3.Multiply")
print("4.Divide")
print("5.Exponent")
print("6.Modulo")
print("7.Exit")
while(1):
    n = int(input("Choose one of the options"))
    float1 = int(input("Enter first no"))
    float2 = int(input("Enter second no"))
    if n==1:
        print(add(float1,float2))
    elif n==2:
        print(subtract(float1,float2))
    elif(n==3):
        print(multiply(float1,float2))
    elif(n==4):
        print(divide(float1,float2))
    elif(n==5):
        print(exponent(float1,float2))
    elif(n==6):
        print(modulo(float1,float2))
    elif(n==7):
        break
    else:
        print("Invalid option")
```

```
        print("Invalid option")
```

```
Select operation:

1.Add
2.Subtract
3.Multiply
4.Divide
5.Exponent
6.Modulo
7.Exit
Choose one of the options1
Enter first no12
Enter second no16
28
Choose one of the options2
Enter first no14
Enter second no10
4
Choose one of the options3
Enter first no10
Enter second no5
50
Choose one of the options4
Enter first no10
Enter second no5
2.0
Choose one of the options5
Enter first no10
Enter second no3
1000
Choose one of the options6
Enter first no12
Enter second no5
```

```
4
Choose one of the options3
Enter first no10
Enter second no5
50
Choose one of the options4
Enter first no10
Enter second no5
2.0
Choose one of the options5
Enter first no10
Enter second no3
1000
Choose one of the options6
Enter first no12
Enter second no5
2
Choose one of the options10
Enter first no12
Enter second no13
Invalid option
Choose one of the options7
Enter first no12
Enter second no12
```

Q3)

```
In [26]: a = "Sidarth"
         b = "Saikumar"

In [27]: print(a+b) # concatenate

         SidarthSaikumar

In [28]: print(a[::-1])#reverse

         htradiS

In [29]: print(a[2:4])#slicing

         da
```

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4)Why is python popular?

- Easy to learn and use
- Mature and supportive community
- Hundreds of python libraries and frameworks
- Versitality,effieciency,speed
- Big data,machine learning and cloud computing

5)Frameworks used in python are Django,Turbogears,CherryPy,Flask,Bottle,Web2py,Dash and Falcon

6)WSGI-Web Server Gate Interface