

Assignment Python

Divyansh Agarwal

TASK1: Write a Python Program to input two numbers and perform all Arithmetic operations and print the output

```
In [1]: x=int(input("Enter number 1"))
        y=int(input("Enter number 2"))

In [19]: print("Addition: x + y =",x+y)
        print("Subtraction: x - y =",x-y)
        print("Multiply: x * y =",x*y)
        print("Divide: x / y =",x/y)
        print("Exponent: x ^ y =",x**y)
        print("Floor Division: x // y =",x//y)
        print("Modulus: x % y =",x%y)

Addition: x + y = 7
Subtraction: x - y = -1
Multiply: x * y = 12
Divide: x / y = 0.75
Exponent: x ^ y = 81
Floor Division: x // y = 0
Modulus: x % y = 3
```

TASK2: Write a program to make a create a list and access elements using for loop.

- 1. Find no of elements in that list
- 2. Find max and min element in that list
- 3. Sort the list in ascending order and print it

```
In [14]: l=[]
        l= [ int(x) for x in input().split() ]

In [18]: print("Entered list: ")
        for i in l:
            print(i)

Entered list:
2
3
4
5
7
8
9

In [16]: print("1. Number of elements in the list are:",len(l))
        print("2. Maximum element in the List:",max(l),"\\n    Minimum Element in the List:", min(l))
        l.sort()
        print("3. Sorted List ",l)

1. Number of elements in the list are: 7
2. Maximum element in the List: 9
   Minimum Element in the List: 2
3. Sorted List  [2, 3, 4, 5, 7, 8, 9]
```

TASK3: Write a program to store student details which consists of student id and name in dictionary.

- 1. Accessing dictionary using for loop
- 2. Access on keys from the created dictionary
- 3. Access values of keys in the dictionary

```
In [32]: n=3
        d={}
        print("Enter a dictionary <Key,Data>:")
        for i in range(n):
            temp=input().split()
            d[temp[0]]=temp[1]

Enter a dictionary <Key,Data>:

In [41]: print(d.keys())
        print(d.values())
        for i in d:
            print(i)
        for key,val in d.items():
            print(d[key])

dict_keys(['1', '2', '3'])
dict_values(['Div', 'Tanay', 'John'])
1
2
3
Div
Tanay
John
```