my\_str = “Hello World….!”

print("hello world")

print(len(my\_str))

print(type(my\_str))

Output :

Hello World...!

hello world

15

<class 'str'>

**List Functions :**

P = [3 , 'nine' , 4 , 'sixteen']

L = [2, 4, 6, 8, 10]

A = [10, 20, 30, 40, 50]

max(L)

print(min(A))

P.append('3+8j')

print(P)

L.insert(2,'Akola')

print(L)

P.extend(L)

print(P)

output :

10

[3, 'nine', 4, 'sixteen', '3+8j']

[2, 4, 'Akola', 6, 8, 10]

[3, 'nine', 4, 'sixteen', '3+8j', 2, 4, 'Akola', 6, 8, 10]

# Set functions :

s = {10,22.5,'Ashish',True}

print(s)

len(s)

type(s)

s.add("siddhi")

print(s)

s.remove("Ashish")

print(s)

s.update([1,2,3])

print(s)

output :

{True, 10, 22.5, 'Ashish'}

4

set

{'Ashish', True, 10, 'siddhi', 22.5}

{True, 10, 22.5}

{'Ashish', 2, True, 3, 10, 22.5}

# Conditional Statement :

a = int(input("Enter the number"))

if(a <= 100):

print("no charges")

elif(a >= 100):

print("rs. 5 per unit")

else:

print("rs. 10 per unit")

a = 3

b = 5

if(a > b):

print("a is greater than b")

else:

print("b is greater than a")

output :

Enter the number110

rs. 5 per unit

Enter the number99

no charges

b is greater than a

# Dictionary and its Function :

# D={"siddhi":1,"apurva":2,"rashmika":3}

# Print(D)

# len(D)

# type(D)

# D.keys()

# D.values()

# D["aarti"]=5

# print(D)

D["siddhi"]=6

print(D)

output :

{'siddhi': 1, 'apurva': 2, 'rashmika': 3}

3

dict

dict\_keys(['siddhi', 'apurva', 'rashmika'])

dict\_values([1, 2, 3])

{'siddhi': 1, 'apurva': 2, 'rashmika': 3, 'aarti': 5}

{'siddhi': 6, 'apurva': 2, 'rashmika': 3}

# Looping statements :

# for i in [1,2,3,4,5]:

# print(i)

# else:

# print("This is End")

# output :

1

2

3

4

5

This is End

**String handling functions :**

s = "Good morning"

print(s.isalnum())

S = "Disha123"

print(S.isalnum())

s = "Disha Computer Institute"

print(s.isalpha())

s = '12345678'

print(s.isdecimal())

s = "DisHa COMputER InsTITute"

print(s.swapcase())

output :

False

True

False

True

dIShA comPUTer iNStitUTE

**Import Numpy Library :**

import numpy as np

ndarray = np.arange(1,10).reshape(3,3)

print(ndarray)

arr = np.array([1.3,3.5,4.8])

print(arr.dtype)

arr1 = np.zeros((2,2))

print(arr1)

arr2 = np.ones((2,2))

print(arr2)

output :

[[1 2 3]

[4 5 6]

[7 8 9]]

float64

[[0. 0.]

[0. 0.]]

[[1. 1.]

[1. 1.]]

**Unary operators in numpy :**

import numpy as np

arr = np.arange(1,10).reshape(3,3)

print(arr)

print("The sum of all elements in given array is :",arr.sum())

print("The sum of all elements in given array is :",arr.sum(axis=0))

print("The lowest element in given array is :",arr.min())

print("The largest element in given array is :",arr.max())

output:

[[1 2 3]

[4 5 6]

[7 8 9]]

The sum of all elements in given array is : 45

The sum of all elements in given array is : [12 15 18]

The lowest element in given array is : 1

The largest element in given array is : 9

**Multilevel Inheritance :**

class Parent:

def display(self):

print("Good Morning")

class Son1(Parent):

def display1(self):

print("Good Afternoon")

class Son2(Son1):

def display2(self):

print("Good Evening")

class Son3(Son2):

def display3(self):

print("Have A Nice Day")

S =Son3()

S.display()

S.display1()

S.display2()

S.display3()

Output :

Good Morning

Good Afternoon

Good Evening

Have A Nice Day