**PYTHON TEST – 30marks**

**20/30marks received**

# 1.Write a program using function to find area of a triangle. – 5m

# def main():

# b = int(input('Please Enter the base '))

# h = int(input('Please Enter the height '))

# area = b \* h / 2

# print(area)

# main()

# OUTPUT:

'Please Enter the base-40

'Please Enter the base-80

1600.0/.

# 

2.Write a program using while loop, to generate the following series – 2,4,6,8,….N – 5m **(N should be an input from the user :**

**-2m)**

## n=2

## while n <= 100:

## print(n)

## n +=2

Output:

2,4,6,8,…………………………………..

## 3. List all the python collections(arrays) and give one liner for each – (wrong, as we are talking about python collections(arrays) – lists, tuple, etc : -5m)

## 5m

## Append:

## numbers= [1,2,3,4]

## numbers.append(2)

## print(numbers)

## clear:

## numbers= [1,2,3,4]

## numbers.clear(1)

## print(numbers)

## copy:

## names = ["navi", "pavi", "kavi"]

## x = names.copy()

## print(x)

## extend:

## fruits = ['apple', 'banana', 'cherry']

## cars = ['Ford', 'BMW', 'Volvo']

## fruits.extend(cars)

## print(fruits)

## insert:

## fruits = ['apple', 'banana', 'cherry']

## fruits.insert(1, "orange")

## print(fruits)

## pop:

## fruits = ['apple', 'banana', 'cherry']

## fruits.pop(1)

## print(fruits)

## remove:

## fruits = ['apple', 'banana', 'cherry']

## fruits.remove("banana")

## print(fruits)

4.Write a python program to create a file, open, write and read from the file – 5m

## f = open("navi.txt", "a")

## f.write("hello Im Navish- MCA 2YEAR")

## f.close()

## f = open("navi.txt", "r")

## print(f.read())

OUTPUT:

HELLO IM NAVISH-MCA 2YEAR

5.Write a program using class, to take input of employee name, address and ID and display the same as output (you may use inheritance as well) – 5m

**(1. no input taken from user,**

**2. the object is created inside the function and thus it is not showing the output: -2m)**

## class Profile:

## def \_\_init\_\_(self, employeename, address, ID):

## self.firstname = employeename

## self.secondname = address

## self.lastname = ID

## def printname(self):

## print(self.firstname, self.secondname, self.lastname)

## X1 = Profile("Navish", "Bangalore", 5465)

## X1.printname()

OUTPUT:

6.Write a program to take input from the user of 3nos. Find its sum and average and display the same as output – 2m

## a= int(input("enter the no1:"))

## b= int(input("enter the no2:"))

## c= int(input("enter the no3:"))

## s= a+b+c

## d=a+b+c/3

## print(s)

## print(d)

## OUTPUT:

## enter the no1:33

## enter the no2:44

## enter the no3:55

## 132

## 95.33333333333333

7.Write a program using function to calculate bonus of an employee depending on the following condition:

1. Take salary input from the user.
2. If salary > 5000, bonus = 10% of salary else 5% of salary – 3m

**(you have to calculate the bonus and not just display 10%..... on the screen : -1m)**

## Salary = int(input("Enter the salary:"))

## def fun1():

## if Salary > 5000:

## print("Increase the bonus 10%")

## else:

## print("Increase the bonus 5%")

## fun1()

OUTPUT:

Enter the salary:7000

Increase the bonus 10%

OR

Enter the salary:4000

Increase the bonus 5%