

Integrated Master of Science (IT) [iMSc (IT)]

Semester V

221601505 PRACTICALS ON PYTHON

Unit 4

Lab Task

1. Create a class paper with width and height as data Member. Create function outside a class that find out area and perimeter of that paper Pass object as argument.area=weight*height, perimeter=2*width+height.
2. Define a class Teacher with the following specification:
 - Private members:
 - Name : 20 char
 - Subject: 10 char
 - Basic, DA,HRA : float
 - Salary: float
 - Calculate () - function computes the salary and returns it.
 - Salary is sum of basic, DA and HRA
 - Public member: Readdata() function accept the data values and invoke the calculate function.
3. Write a python program to create a class Bank with following members:
 - Id- Private
 - Name -Protected
 - Balance – Public MemberFunctions:
 - Constructor to initialize balance as 1000.Create another class named Customer and add following methods: withdraw() - To withdraw money deposit() - To deposit money interest() - calculate interest

Call all the methods appropriately and print Id, Name and Balance.
- 4 Write a program to divide one number from another number with exception handling and show ZeroDivisionError.
5. Write a program to raise an exception if number is negative
6. Write a program to demonstrate the use of finally with exception.
7. Demonstrate the usage of assert and with keyword.