

(An off-Campus Institution of NITTE (DEEMED TO BE UNIVERSITY), MANGALORE)

**Department of MCA**

05-05-2023

**ENTERPRISE JAVA LAB (22MCA207)**

**ASSIGNMENT - 4**

1. Write a program to create a class named shape. In this class we have three sub classes circle, triangle and square each class has two member function named draw () and erase (). Create these using polymorphism concepts.
2. Write a program to give a simple example for abstract class.
3. Write a program to create interface A in this interface we have two method meth1 and meth2. Implements this interface in another class named MyClass.
4. Write a program to give example for multiple inheritance in Java.
5. Write a program to create interface named test. In this interface the member function is square. Implement this interface in arithmetic class. Create one new class called ToTestInt in this class use the object of arithmetic class.
6. Create an outer class with a function display, again create another class inside the outer class named inner with a function called display and call the two functions in the main class.
7. Write a program to create a package named mypack and import it in circle class.
8. Write a program to create a package named package in ex1 class.
9. Create class box and box3d. box3d is extended class of box. The above two classes going to pull fill following requirement

i. Include constructor.

ii. set value of length, breadth, height

iii. Find out area and volume.

Note: Base class and sub classes have respective methods and instance variables.

1. Write a program for example of try and catch block. In this check whether the given array size is negative or not.
2. Write a program for example of multiple catch statements occurring in a program.
3. Write a program to illustrate usage of try/catch with finally clause.
4. Write a program to describe usage of throws clause for a user defined method.
5. Write a program for creation of user defined exception.