JAVAPROGRAMMINGLAB

COURSE OUTCOMES (COS):

1. Write Java application programs using OOP principles and properprogram structuring.
2. Develop Java program using packages and inheritance..
3. Develop Java programs that can handle exceptions
4. Develop graphical User Interface using AWT.
5. Demonstrate event handling mechanism.

1. Writeasimplejava application,toprintthemessage,“Welcometojava”

2. Write a program to display the month of a year. Months of the year should be held in anarray.

3. Writeaprogram todemonstrate adivisionby zeroexception

4. Writeaprogram tocreate auser definedexceptionsay PayOut ofBounds.

5. Write a java program to add two integers and two float numbers. When no arguments aresupplied,giveadefault value to calculatethe sum.Usefunction overloading.

6. Write a program to perform mathematical operations. Create a class called AddSub withmethods to add and subtract. Create another class called MulDiv that extends from AddSubclass to use the member data of the super class. MulDiv should have methods to multiply anddivideAmainfunctionshould accessthemethodsand performthemathematicaloperations.

7. Write a program with class variable that is available for all instances of a class. Use staticvariabledeclaration.Observethe changesthatoccur inthe object’smembervariable values.

8. Write a java program to create a student class with following attributes: Enrollment_id:Name, Mark of sub1,Mark ofsub2,mark ofsub3, TotalMarks.Totalof the threemarksmust be calculated only when the student passes in all three subjects. The pass mark for eachsubject is 50. If a candidate fails in any one of the subjects his total mark must be declaredaszero. Using this condition write a constructor for this class. Write separate functions foraccepting and displaying student details. In the main method create an array of three studentobjectsand display the details.

9. In a college first year class are having the following attributes: Name of the class (BCA,BCom,BSc), Nameofthe staffNo of thestudentsin theclass, Array ofstudents inthe class

10. Define a class called first year with above attributes and define a suitable constructor.Also write a method called best Student () which process a first-year object and return thestudent with the highest total mark. In the main method define a first-year object and find thebeststudent ofthis class

11. Write a Java program to define a class called employee with the name and date ofappointment. Create ten employee objects as an array and sort them as per their date ofappointment.ie, print them as per their seniority.

12. Createapackage“student.Fulltime.BCA”in yourcurrentworkingdirectory
Createadefaultclassstudentintheabovepackagewiththefollowingattributes:Name,age, sex.

b. Havemethods forstoring as well asdisplaying

13. Write a small program to catch Negative Array Size Exception. This exception is causedwhenthe array is initialized to negativevalues.

14. Write aprogramtohandleNullPointerExceptionandusethe“finally”methodtodisplayamessageto theuser.

15. Writeaprogramwhich createand displays amessageonthe window.

16. Writeaprogramto drawseveralshapesin the createdwindow.

17. Writeaprogramto createanappletand drawgrid lines.

18. Write a program which creates a frame with two buttons father and mother. When weclick the father button the name of the father, his age and designation must appear. When weclickmother similardetails of motheralso appear.

19. Createasimple appletwhichreveals thepersonalinformation ofyours.

20. Write a java Program to create a window when we press M or m the window displaysGood Morning, A or a the window displays Good After Noon E or e the window displaysGoodEvening, N orn thewindow displays GoodNight

21. Demonstratethevariousmousehandlingeventsusingsuitableexample.
Writeaprogramto create menubar andpull-down menus