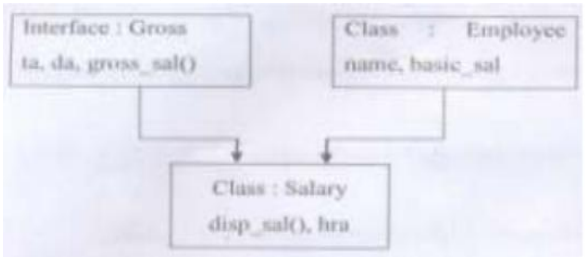
Course: Diploma in Computer Engg. **Year/Sem:** IInd/IVth

Subject: Java Programming **Code:** 22412

Chap 3: Inheritance, Interface & Packages

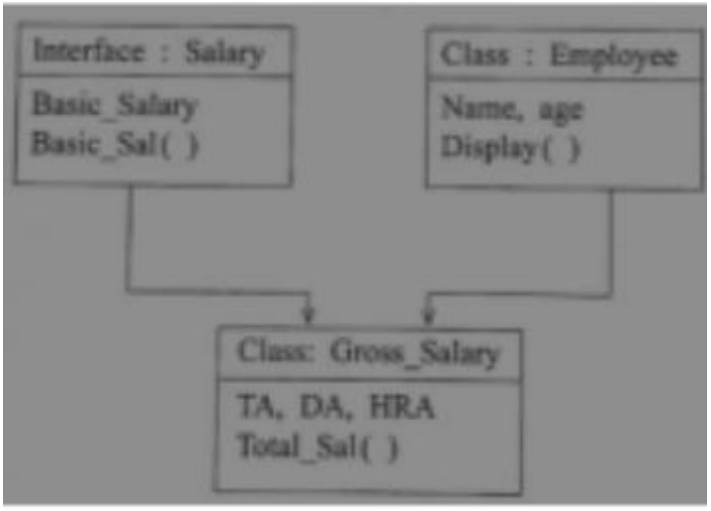
1. What is single level inheritance? Explain with suitable example. S17
2. What is package? State how to create and access user defined package in Java. S17
3. What is meant by interface? State its need and write syntax and features of interface. S17
4. Write a program to implement following inheritance: S17



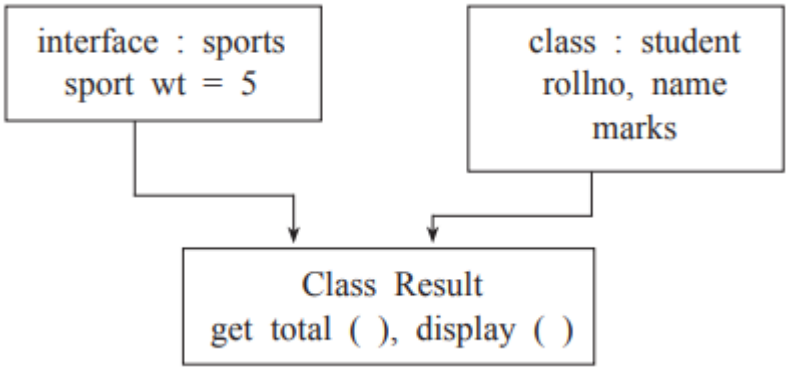
5. What is the use of ArrayList class? State any two methods with their use from ArrayList. S17
6. List any four built-in packages from Java API along with their use. S17
7. Explain inheritance and polymorphism features of Java. W17
8. What is the multiple inheritance? Write a java program to implement multiple inheritance. W17
9. What is package? How do we create it? Give the example to create and to access package. W17
10. Explain method overriding with suitable example. W17
11. Enlist any four built in packages in java API with atleast two class name from each package. W17
12. What is importance of super and this keyword in inheritance? Illustrate with suitable example. W17
13. Write a single program to implement inheritance and polymorphism in java. W17
14. Describe access control specifiers with example and diagram. W17
15. Which are the restrictions present for static declared methods? S18
16. Explain how interface is used to achieve multiple Inheritance in Java. S18
17. Write a java program to implement visibility controls such as public, private, protected access modes. Assume suitable data, if any. S18
18. Write a java program to implement multilevel inheritance with 4 levels of hierarchy. S18
19. Which are the ways to access package from another package? Explain S18

with example

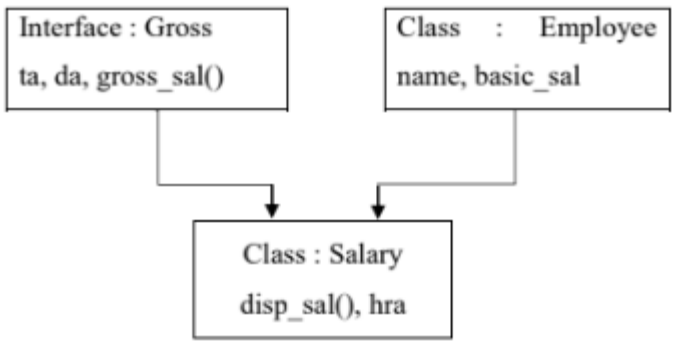
20. Write a java program to extend interface assuming suitable data. S18
21. How to add new class to a package? Explain with an example. S18
22. What is interface? Describe its syntax and features. W18
23. What is package in Java? Write a program to create a package and import the package in another class. W18
24. What is use of super and final with respect to inheritance. W18
25. How can parameters be passed to an applet? Write an applet to accept username in the parameter and print “Hello<username> “. W18
26. Write a program to demonstrate multiple inheritances. W18
27. Explain the four access specifiers in Java. S19
28. Differentiate between method overloading and method overriding. S19
29. List any four Java API packages. W19
30. Differentiate between class and interfaces. W19
31. Define package. How to create user defined package? Explain with example. W19
32. Implement the following inheritance. W19



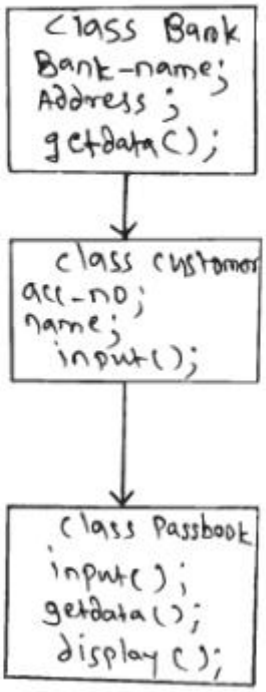
33. Write a syntax to inherit one interface into another interface.
34. Explain package creation with suitable example
35. W.A.P to implement the following inheritance:



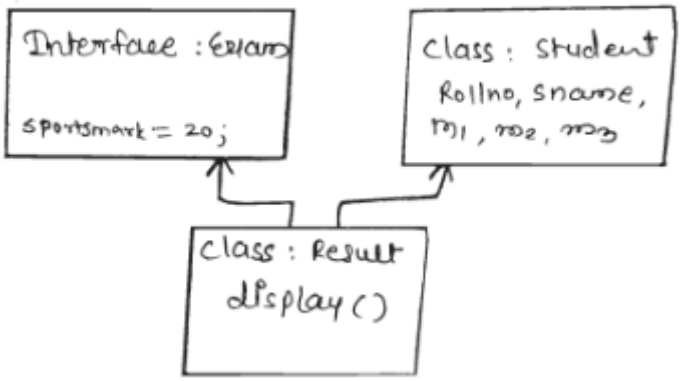
36. Explain inheritance and polymorphism features of Java.
37. What is the multiple inheritance ? Write a java program to implement multiple inheritance.
38. Explain method overriding with suitable example.
39. Enlist any four built in packages in java API with atleast two class name from each package.
40. Write a single program to implement inheritance and polymorphism in java.
41. Explain the following methods of string class with syntax and example :
(i) substring()
(ii) replace()
42. Describe the following attributes of applet :
(i) Codebase
(ii) Alt
(iii) Width
(iv) Code
43. Write a program to implement following inheritance :



44. Write a program to implement following inheritance. Refer Figure No. 1



45. Write a java program for following Figure No. 2



46. Design a package containing a class which defines a method to find area of circle. Import it in java application to calculate area of circle.

47. Which are the restrictions present for static declared methods ?

48. Write a java program to extend interface assuming suitable data.

49. How to add new class to a package ? Explain with an example.