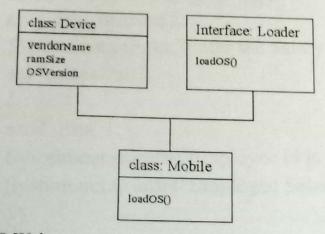
JAVA PRACTICAL QUESTIONS(22412)CO4I-B

- 1. WRITE A PROGRAM TO MAKE USE OF TERNARY OPERTOR.
- 2. Write a program to display pyramids of stars.
- 1 1 1 1
- 2 2 2 2
- 3 3 3
- 4 4

5

- 3. Develop a program to show the use of implicit type casting.
- 4. WAP to insert different elements in the vector and display them.
- 5. Write different ways to create objects of the any primitive datatypes.
- 6.Demostrate the use of overriding method display() using super and sub classes.

7.



- 8. Write a program to create package Maths_s having two classes addition and subtraction. Use suitable methods in each class to perform basic operation.
- 9. Write a program to display two threads even and odd numbers respectively with delay of 500ms.after each number.
- 10. Create three threads and run these threads according to set priority.
- 11. Develop a program to accept a password from the user and throw "Authentication Faliure" exception if password is incorrect.
- 12.Design a applet to pass username and password as a parameters to check password contains more than 8 charecters.
- 13.WAP to design a applet showing three cocentric circles filled with three different colors.
- 14. WAP to copy the content of one file to another.
- 15. Write a program to define class Employee with members as id and salary. Accept data for three employees and display details of employees

```
ANSWERS:-
16. Write a program to define class Employee with members as id and salary. Accept data for
three employees and display details of employees
Ans:-
import java.util.*;
class emp
int empid, sal;
Scanner sc=new Scanner(System.in);
void getdata()
System.out.println("Enter the id of the emp:");
empid=sc.nextInt();
System.out.println("Enter the Salary of the emp:");
sal=sc.nextInt();
void disp(){
System.out.println("Employee id is:"+empid);
System.out.println("Employee Salary is:"+sal);
}}
class empdemo
public static void main(String args[])
emp[]el;
e1=\text{new emp}[3];
for(int i=0; i<3; i++) {
      el[i]=new emp();
      el[i].getdata();
 System.out.println("\n Records");
 for(int i=0; i<3; i++)
       el[i].disp();
  }}}
```

```
15. Write a program to find largest between two numbers using '?:' operator.
Ans:-
import java.util.*;
class Ternary {
 public static void main(String[] args) {
   int num1, num2;
   int result:
   Scanner sc=new Scanner(System.in);
      System.out.println("Enter Number 1 and Number 2:");
      num1=sc.nextInt();
      num2=sc.nextInt();
   result = (num1>num2)? num1: num2;
    System.out.println("Largest:" + result);
            _____****************
14. WAP to copy the content of one file to another.
Ans:-
import java.io.FileReader;
import java.io.FileWriter;
public class filecopy {
public static void main(String args[]) throws Exception {
     FileReader frt=new FileReader("file1.txt");
     FileWriter fr=new FileWriter("file2.txt");
      int i;
      while((i=frt.read())!=-1) {
           fr.write((char)i); }
      System.out.println("Data is copied from file 1 to file 2");
      frt.close();
      fr.close();
 }}
```

```
3. WAP to design a applet showing three cocentric circles filled with three different
olors.
Ans:- import java.applet.*:
import java.awt.*;
public class conc extends Applet
public void paint(Graphics g)
g.setColor(Color.red);
g.drawOval(50,50,150,150);
g.setColor(Color.blue);
g.drawOval(75,75,100,100);
g.setColor(Color.green);
g.drawOval(100,100,50,50);
/*<applet code="concs.java" width=500 height=500></applet>*/
                  ____*************
12. Design a applet to pass username and password as a parameters to check
password contains more than 8 charecters.*/
import java.applet.*;
import java.awt.*;
public class AppletParameter extends Applet {
String user, pass;
int size;
public void init(){
     user = getParameter("username");
    pass = getParameter("password");
       size = pass.length();}
  public void paint(Graphics g) {
  if(size \le 8)
   g.drawString("user" +user, 20, 20);
       g.drawString("pass" +pass, 40, 60);}
       else
            g.drawString("Invalid Password", 80, 100); }}
```

```
APPLET CODE="AppletParameter.java" WIDTH="400" HEIGHT="50">
    PARAM NAME="username"
                                  VALUE="Harshala">
    <PARAM NAME="password" VALUE="Patetrxfxtgh">
    </APPLET> */
 11 Develop a program to accept a password from the user and throw
 "Authentication Faliure" exception if password is incorrect.
 import java.util.*;
 class AuthenticationFaliure extends Exception
     AuthenticationFaliure(String msg)
          super(msg);
class Autentdemo {
    public static void main(String args[]) {
          String pass="harshala";
          Scanner sc=new Scanner(System.in);
          System.out.println("Enter the password:");
         String name=sc.next();
         try
              if(pass.equals(name))
                    throw new AuthenticationFaliure("valid password");
              else
                   System.out.println("InValid password");
        catch(AuthenticationFaliure b)
             System.out.println(b.getMessage());
```

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Create three threads and run these threads according to set priority.
Ans:-
class TestMul extends Thread {
  public void run(){
    System.out.println("running thread name
is:"+Thread.currentThread().getName());
     System.out.println("running thread priority
 is:"+Thread.currentThread().getPriority());
    public static void main(String args[]){
     TestMul m1=new TestMul();
     TestMul m2=new TestMul();
    m1.setPriority(Thread.MIN_PRIORITY);
    m2.setPriority(Thread.MAX_PRIORITY);
    m1.start();
    m2.start();
                ********
9. Write a program to display two threads even and odd numbers respectively with
delay of 500ms.after each number.
Ans:-
class even extends Thread
     int i;
 public void run()
     for(i=1;i \le 10;i++)
           if(i%2==0)
                System.out.println("Even Thread i=" +i);
     try
           Thread.sleep(500);
```

```
catch(Exception e){}
       class odd extends Thread
3.D
             public void run()
4.W
5.W
                   int i;
                         for(i=1;i<=10;i++)
                              if(i\%2!=0)
                                    System.out.println("Odd Thread i="+i);
                              try
                   Thread.sleep(500);
             catch(Exception e){}
8.
su
       class evenoddDemo
       public static void main( String args[])
       even e1 = new even();
       el.start();
       odd o1=new odd();
       o1.start();
```

write a program to create package Maths_s having two classes addition and abtraction. Use suitable methods in each class to perform basic operation.

```
package Math s;
import java.util.*;
public class addition
       Scanner sc=new Scanner(System.in);
       int a,b,c;
       public void accept1()
       System.out.println("Enter the value of a:");
       a=sc.nextInt();
       System.out.println("Enter the value of b:");
       b=sc.nextInt();
       public void display1()
            c=a+b;
            System.out.println("addition is="+c);
       }
package Math_s;
import java.util.*;
public class subtraction
     Scanner sc=new Scanner(System.in);
     int a,b,c;
     public void accept()
     System.out.println("Enter the value of a:");
     a=sc.nextInt();
     System.out.println("Enter the value of b:");
     b=sc.nextInt();
      public void display()
```

```
c=a-b;
                        System.out.println("Subtraction is="+c);
           import Math s.*;
           class demo123
            public static void main(String args[])
                 addition a=new addition();
                 a.accept1();
                 a.display1();
             subtraction s=new subtraction();
             s.accept();
             s.display();
           class: Device
                                Interface: Loader
          vendorName
                                loadOS()
          ramSize
          OSVersion
                        class: Mobile
                       loadOS()
n
1:
       import java.util.*;
14
       class Device
15
th
       String vendor name;
       int ram size;
       int os_version;
```

```
ad put()
Scanner sc=new Scanner(System.in);
System.out.println("Enter the Vendor name:");
vendor name=sc.nextLine();
System.out.println("Enter the ram size of Device:");
ram size=sc.nextInt();
System.out.println("Enter the OS version of Device ");
os version=sc.nextInt();
interface Loader
     public void loadOS();
class Mobile extends Device implements Loader
     public void loadOS()
     System.out.println("Nmae of the Vendor is:"+vendor_name);
     System.out.println("Size of the ram is :"+ram_size);
     System.out.println("OS version of he Device is "+os_version);
class inter
     public static void main(String args[])
Mobile m=new Mobile();
m.put();
m.loadOS();
```

```
WAP to insert different elements in the vector and display them.
import java.util.*;
 lass prg4
public static void main(String args[])
 Vector v=new Vector();
 v.addElement(new Integer(10));
 v.addElement(new Float(10.5f));
 v.addElement(new Character('H'));
 v.addElement(new String("JAVA"));
 System.out.println("Elements to be displayed:"+v);
.3.. Write a program to display pyramids of stars.
2 2 2 2
3 3 3
Ans:-
import java.util.*;
class star2
public static void main(String args[])
     int a:
     System.out.println("Enter a number");
     Scanner sc=new Scanner(System.in);
     a=sc.nextInt();
```

```
for(int i=1;i<=5;i++)
{
    for(int j=5;j>=i;j--)
    {
        System.out.print(" "+i);
     }
    System.out.println("");
}
```

ORAL QUESTIONS

1. Give syntax and example of following math functions. i)sqrt () ii)pow ()

- 2. Enlist access specifiers in Java.
- 3. the use of static keyword
- 4. Enlist any 4 keywords used for exception handling in Java
- 5. Give syntax of <param> tag to pass parameters to an Applet.
- 6. Give any two methods from File class with their usage.
- 7. Describe life cycle of thread with suitable diagram.
- 8. State need of interface with suitable examples.
- 9. Give usage of following methods:

i)drawOval()

ii)getFont()

iii)drawArc()

iv)getFamily()

- 10. Enlist types of stream classes and describe methods for reading and writing data for each type.
- 11. Describe types of variables in Java with their scope.
- 12. Write a program to initialize object of a class student using parameterized constructor.
- 13. Differentiate between Java Application and Java Applet (any 4 points

