1 Reading values of All basic data types

Checking prime number

2 joint account using ‘static’ keyword

Electricity bill generation

3 Read & Display your name using recursive function

Display interest for each year for 5 years for given principal amount and rate of interest

4 Create multi level inheritance with vehicle,two_wheeler,three_wheeler classes

use of final with inheritance

5 currency conversion using interface

```
//1 dollar=73rupees
//1 euro =89 rupees
//1 kuwait dinar=241 rupees
import java.util.Scanner;
interface currency
{
        double rupees_to_dollar(double r);
        double rupees_to_euro(double r);
        double rupees_to_dinar(double r);
}
class convert implements currency
{

        public double rupees_to_dollar(double r)
        {
                return (r/73);
        }
        public double rupees_to_euro(double r)
        {
                return (r/89);
        }
```

```
        public double rupees_to_dinar(double r)
        {
                return (r/241);
        }
}
class money
{
        public static void main(String coin[])
        {

                double rupee,doll,euro,dinar;
                convert c=new convert();
                Scanner take=new Scanner(System.in);
                System.out.println("\nEnter some indian rupees:");
                rupee=take.nextDouble();
                doll=c.rupees_to_dollar(rupee);
                euro=c.rupees_to_euro(rupee);
                dinar=c.rupees_to_dinar(rupee);
                System.out.println(rupee+" rupees =  "+doll+" dollars");
                System.out.println(rupee+" rupees =  "+euro+" euros");
                System.out.println(rupee+" rupees =  "+dinar+" dinars");
        }
}
```

6 checking prime using recursion

```
import java.util.Scanner;
class recur_prime
{
   public static void main(String args[])
   {
      long n,count;
      Scanner take=new Scanner(System.in);
      System.out.println("enter a number:");
      n=take.nextInt();
      count=check(n,n);
      System.out.println(r);
      if(count==2)
      {
         System.out.println("prime");
      }
      else
      {
```

```
            System.out.println(" not prime");
        }
    }
    static long check(long g,long div)
    {
        long k;
        if(div==0)
        {
            return 0;
        }
        else if(g%div==0)
        {
          k=1+check(g,div-1);
          return k;
        }
        else
        {
          k=0+check(g,div-1);
          return k;
        }
    }
}
```

7 Creating your own exception

8 Displaying contents of text file with line numbers

```
import java.io.File;
import java.util.Scanner;
import java.io.FileNotFoundException;
class app
{
    public static void main(String oy[])
    {
        int linenum=1;
        try
        {
            File f=new File("D:\\sai\\java\\dummy.java");
            Scanner s=new Scanner(f);
            while(s.hasNext())
            {
                String line=s.nextLine();
                System.out.println(linenum+"."+line);
                linenum++;
```

```
                }
        }
        catch(FileNotFoundException fn)
        {
                System.out.println(fn);
        }
    }
}
```

9 Creating multiple threads

10 an applet to create timer

```
import java.applet.*;
import java.awt.*;

/*
<applet code="app" width="500" height="400">
</applet>
*/

public class app extends Applet implements Runnable
{
    int counter;
    Thread t;
    public void init()
    {
        counter=0;
        t=new Thread(this);
        t.start();
    }
    public void run()
    {
        try
        {
            while(true)
            {
                repaint();
                Thread.sleep(1000);
                ++counter;
            }
        }
        catch(Exception e)
        {

        }
```

```
        }
        public void paint(Graphics g)
        {
                Font f=new Font("serif",Font.BOLD,150);
                g.setFont(f);
                String s=String.valueOf(counter);
                g.drawString(s,200,200);
        }
}
```