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1
2   /**
3     A PROGRAM TO FIND THE DAY OF THE WEEK OF THE INPUTED DATE.
4    */
5   //SUCHIT TE XII A
6   import java.util.*;
7   class DayDate
8   {
9       public static void main()
10      {
11          Scanner sc=new Scanner(System.in);
12          int month[]={0,31,28,31,30,31,30,31,31,30,31,30,31};
13          String days[]={"","Sunday","Monday","Tuesday","Wednesday","Thu
    rsday","Friday","Saturday"};
14          System.out.print("Enter the day : ");
15          int d=sc.nextInt();
16          System.out.print("Enter the month : ");
17          int m=sc.nextInt();
18          System.out.print("Enter the year : ");
19          int y=sc.nextInt();
20          if((y%400==0) || ((y%100!=0)&&(y%4==0)))
21          {
22              month[2]=29;
23          }
24          //TO CHECK DATE VALIDITY AND CONTINUE
25          if(m<0 || m>12 || d<0 || d>month[m] || y<0 || y>9999)
26          {
27              System.out.println("Invalid Date");
28          }
29          else
30          {
31              int dn=0;
32              for(int i=1;i<m;i++)
33              {
34                  dn=dn+month[i];
35              }
36              dn=dn+d;
37              System.out.print("Enter the Day on 1st January in this yea
    r: ");
38              String s=sc.next().trim();
39              //finding the day of the week which corresponds to the giv
    en day name
40              int x=0;
41              for(int i=1;i<=7;i++)
42              {
43                  if (s.equalsIgnoreCase(days[i]))
44                  {
45                      x=i;
46                  }
47              }
48              // the main calculation of finding the name of the day of
    the week of the given date starts here
49              for(int i=1;i<dn;i++)
50              {
```

```
51                      x++;
52                      if(x==8)
53                      {
54                          x=1;
55                      }
56                  }
57                  System.out.print("Output : "+d+"/"+m+"/"+y+" is a "+days[x
    ]);
58              }
59          }
60      }
```