PRACTICAL:18

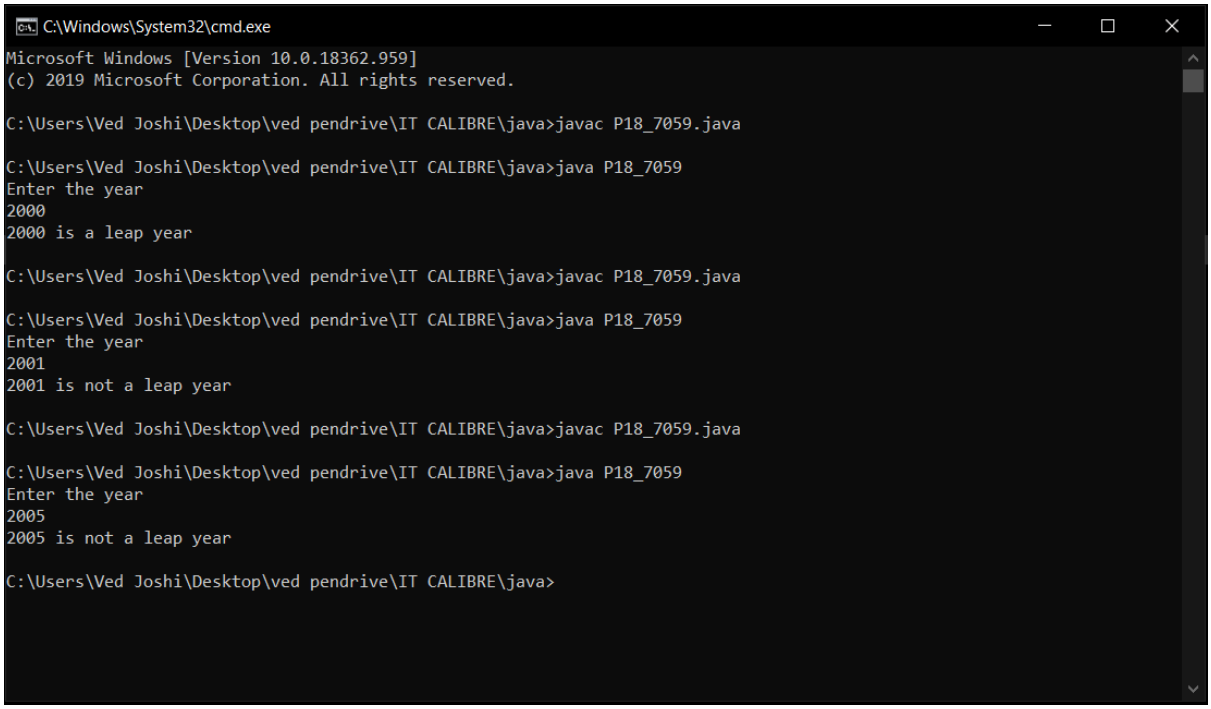
AIM: Create a class to find out whether the given year is leap year or not. (Use inheritance for this program).

PROGRAM:

```
import java.util.Scanner;
abstract class LeapYear
{
	abstract void check(int year);
}
class Calculate extends LeapYear
{
	int temp = 0;
	int year;
	public void check(int year)
	{
		if(year%4==0)
		{
			if(year%100==0)
			{
				if(year%400==0)
				{
					temp=1;
				}
				else
				{
					temp=0;
				}
			}
			else
```

```
                {
                        temp=1;
                }
        }
        else
        {
                temp=0;
        }
        if(temp==0)
        {
                System.out.println(year+" is not a leap year");
        }
        else
        {
                System.out.println(year+" is a leap year");
        }
    }
}
class P18_7059
{
    public static void main(String args[])
    {
        Scanner sc= new Scanner(System.in);
        Calculate c1=new Calculate();
        int myyear;
        System.out.println("Enter the year");
        myyear=sc.nextInt();
        c1.check(myyear);
    }
}
```

OUTPUT:


C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18362.959]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>javac P18_7059.java
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>java P18_7059
Enter the year
2000
2000 is a leap year
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>javac P18_7059.java
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>java P18_7059
Enter the year
2001
2001 is not a leap year
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>javac P18_7059.java
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>java P18_7059
Enter the year
2005
2005 is not a leap year
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>