Date:2023-09-07

Aim:

S.No: 3

Five bikers compete in a race such that they drive at a constant speed which may or may not be the same as the other.

To qualify the race, the speed of a racer must be more than or equal to the average speed of all the 5 racers.

Take as input the speed of each racer and print back the speeds of qualifying racers.

Write a class Race with a method main(String[] args). The main method receives five arguments. You can write code to parse them into double data type.

```
For example, if the values 54.55, 53.57, 54, 56.25, 57.30 are passed as arguments to the main() method, then the output should be

The speed of the racers >= average speed 55.134 : 56.25 57.3.
```

Note: Make sure to use the print() method and not the println() method.

Source Code:

```
Race.java
```

```
class Race
   public static void main(String a[])
      double[] arr=new double[5];
      double average,sum=0;
      for(int i=0;i<5;i++)</pre>
         arr[i]=Double.valueOf(a[i]);
      for(int i=0;i<5;i++)
      sum+=arr[i];
      average=sum/5;
      System.out.print("The speed of the racers >= average speed "+average+": ");
      for(int i=0;i<5;i++)
         if(average<=arr[i])</pre>
         System.out.print(","+arr[i]);
      }
   }
}
```

Execution Results - All test cases have succeeded!

```
Test Case - 1
User Output
The speed of the racers >= average speed 54.85599999999995: ,81.6,58.19,79.42
```

Test Case - 2 User Output The speed of the racers >= average speed 78.0032: ,96.21,87.26,105.63