

# SATURDAY MARATHON

## Question: 11 \*\*Problem: The Planet Explorer

```
PlanetExplorer.java ×
1 package planet;
2
3 public class PlanetExplorer {
4     public double calculateSurfaceArea(double radius)
5     {
6         double pie=3.14258;
7
8         return 4*pie*(radius*radius);
9     }
10
11
12 }
13
```

```
PlanetExplorer.java PlanetExplorerApp.java ×
1 package planet;
2 import java.util.Scanner;
3
4 public class PlanetExplorerApp {
5     public static void main(String[] args) {
6         Scanner scan=new Scanner(System.in);
7         double radius=scan.nextDouble();
8         PlanetExplorer PlanetExplorer=new PlanetExplorer();
9         double R=PlanetExplorer.calculateSurfaceArea(radius);
10        System.out.println(R);
11
12
13
14 }
15 }
16
```

```
Console ×
<terminated> PlanetExplorerApp [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (08-Jul-2023, 11:20:32 pm - 11
5.45
373.3699298
```

## Question: 12 **\*\*Problem: The Height Converter\*\***

HeightConverter.java ×

```
1
2 public class HeightConverter {
3     public double convertInchesToFeet(double inches)
4     {
5         return inches/12;
6     }
7
8
9 }
10
```

HeightConverter.java × HeightConverterApp.java ×

```
1 import java.util.Scanner;
2
3 public class HeightConverterApp {
4     public static void main(String[] args) {
5         Scanner scan=new Scanner(System.in);
6         double inches=scan.nextDouble();
7         HeightConverter HeatConverter =new HeightConverter ();
8         double d=HeatConverter.convertInchesToFeet(inches);
9         System.out.println(d);
10    }
11
12 }
13
```

Console ×

```
<terminated> HeightConverterApp [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (08-Jul-2023, 11:28:03 pr
5.67
0.4725
```

## Question: 13 **\*\*Problem: The Finance Calculator\*\***

```
FinanceCalculator.java ×
1
2 public class FinanceCalculator {
3     public double calculateSimpleInterest(double principal, double rate, double time)
4     {
5         double simpleinterst=principal*rate*time/100;
6         return simpleinterst;
7     }
8
9 }
10
```

```
FinanceCalculator.java  FinanceCalculatorApp.java ×
1 import java.util.Scanner;
2 public class FinanceCalculatorApp {
3     public static void main(String[] args) {
4         Scanner scan=new Scanner(System.in);
5         double principal=scan.nextDouble();
6         double rate=scan.nextDouble();
7         double time=scan.nextDouble();
8         FinanceCalculator FinanceCalculator=new FinanceCalculator();
9         double d=FinanceCalculator.calculateSimpleInterest(principal,rate,time);
10        System.out.println(d);
11    }
12
13
14 }
15
```

```
Console ×
<terminated> FinanceCalculatorApp [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (08-Jul-2023, 11:31:12 pm – 11:31:35 pm) [pid: 2968]
560000
7.67
8
343616.0
```

## Question: 14 **\*\*Problem: Time Converter\*\***

```
TimeConverter.java ×
1
2 public class TimeConverter {
3     public static double convertToHours(int minutes)
4     {
5         return(minutes/60);
6     }
7
8 }
9
```

```
TimeConverter.java  TimeConverterApp.java ×
1 import java.util.Scanner;
2 public class TimeConverterApp {
3     public static void main(String[] args) {
4         Scanner scan=new Scanner(System.in);
5         int minutes=scan.nextInt();
6         TimeConverter TimeConverter=new TimeConverter();
7         double d= TimeConverter.convertToHours(minutes);
8         System.out.println(d);
9     }
10
11 }
12
```

```
Console ×
<terminated> TimeConverterApp [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (08-Jul-2023, 11:33:26 pm – 11:33:36 pm) [pid: 4
60
1.0
```

## Question: 15 **\*Problem: Halve It\*\*\***

```
Halvelt.java ×
1
2 public class HalveIt {
3     public static double halveTheNumber(double num)
4     {
5         return num/2;
6     }
7
8 }
9
```

```
Halvelt.java HalveltApp.java ×
1 import java.util.Scanner;
2 public class HalveltApp {
3     public static void main(String[] args) {
4         Scanner scan=new Scanner(System.in);
5         int num=scan.nextInt();
6         HalveIt H=new HalveIt();
7         double d =HalveIt.halveTheNumber(num);
8         System.out.println(d);
9     }
10
11 }
12
```

```
Console ×
<terminated> HalveltApp [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (08-Jul-2023, 11:35:47 pm – 11:35:49 pm) [pid: 9732]
50
25.0
```

\*\*\*\*\*Happy Coding\*\*\*\*\*

**Thank you sir...**

