Assignment -10

Submitted by

P.Kundhana

Program1:

```
package ThePlanetExplorer;

public class PlanetExplorer {
	public double surfaceArea(double radius)
	{
		return 4*3.14*radius*radius;
	}

}
```

```
package ThePlanetExplorer;

import java.util.Scanner;

public class PlanetExplorerApp {
	public static void main(String[] args) {
		Scanner scan = new Scanner(System.in);
		double a = scan.nextDouble();
		PlanetExplorer p= new PlanetExplorer();
		System.out.printf("%.2f", p.surfaceArea(a));

	}

}
```

Output:

```
3.0
113.04
```

Program2:

```
package TheHeightConverter;

public class HeightConverter {
	public double calculateHeight(double inches)
	{
		return inches/12;
```

```
    }

}
package TheHeightConverter;

import java.util.Scanner;

public class HeightConverterApp {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        double a = scan.nextDouble();
        HeightConverter h = new HeightConverter();
        System.out.printf("%.2f",
h.calculateHeight(a));
        scan.close();
    }

}
```

Output:

```
72.0
6.00
```

Program3:

```
package ThefinanaceCalculator;

public class FinanceCalculator {
    public double simpleInterest(double p, double t,
double r)
    {
        return p*t*r;
    }


}
package ThefinanaceCalculator;

import java.util.Scanner;

public class FinanaceCalculatorApp {
    public static void main(String[] args) {
```

```
        Scanner scan = new Scanner(System.in);
        double p = scan.nextDouble();
        double t = scan.nextDouble();
        double r = scan.nextDouble();
        FinanceCalculator c = new
FinanceCalculator();

    System.out.printf("%.2f",c.simpleInterest(p,t,r))
;
        scan.close();
    }

}
```

Output:

```
1000.0
0.05
2.0
100.00
```

Program4:

```
package TimeConverter;

import java.util.Scanner;

public class TimeConverter {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        double a = scan.nextDouble();
        double res=hoursConverter(a);
        System.out.println(res);
    }
    public static double hoursConverter(double
minutes)
    {
        return minutes/60;
    }

}
```

Output:

```
90
1.5
```

Program5:

```
package HalveIt;

import java.util.Scanner;

public class HalveTheNumber {
	public static void main(String[] args) {
		Scanner scan = new Scanner(System.in);
		double num = scan.nextDouble();
		System.out.printf("%.2f",numberHalving(num));
	}
	public static double numberHalving(double num)

	{
		return num/2;
	}

}
```

Output:

```
150.00
75.00
```