```
/*
Name: Zainulabdin Bughio
course name: ICS4UA.3
Code name: rect_area.java
*/
import java.util.Scanner;

class Main {
   public static void main(String[] args) {
      System.out.println("lets calculate the area of a rectangle");
      Scanner dimension = new Scanner(System.in);
      System.out.println("enter a length");//asks for a length
      double length = dimension.nextInt();
      System.out.println("enter a width");//asks for a width
      double width = dimension.nextInt();
      double area = length*width;
      System.out.println(area + " meters" );
      /*  area calculator

      Calculates the area of a rectangle with simple math and simple multiplication
      */
   }
}
```

Calculator for the parameter of a rectangle

```
/*
Name: Zainulabdin Bughio
course name: ICS4UA.3
Code name: rect_parameter.java
*/
import java.util.Scanner;

class Main {
   public static void main(String[] args) {
      System.out.println("lets calculate the Parameter of a rectangle");
      Scanner scanner = new Scanner(System.in);
      System.out.println("enter a length");
      double length = scanner.nextInt();
      System.out.println("enter a width");
      double width = scanner.nextInt();
```

```
        double parameter = 2*length+width*2;
        System.out.println(parameter + " meters");
        /*  Parameter calculator

       simple code that takes the length and width and multiplies both by 2 individually before
adding them together.
        */
    }
}


/*
Name: Zainulabdin Bughio
course name: ICS4UA.3
Code name: tri_area.java
*/
import java.util.Scanner;

class Main {
    public static void main(String[] args) {
        System.out.println("lets calculate the area of a triangle");
        Scanner scanner = new Scanner(System.in);
        System.out.println("enter a base length");
        double base = scanner.nextInt();
        System.out.println("enter a height");
        double height = scanner.nextInt();
        double area = base*height*0.5;
        System.out.println(area + " meters");
        /*  Area calculator

       simple code that takes the base and multiplies it by the height and then multiples it by 0.5 to
get area of a triangle.
        */
    }
}
```

Velocity of a ball thrown in space.

```
/*
Name: Zainulabdin Bughio
course name: ICS4UA.3
Code name: velocity_calc.java
*/
```

```
import java.util.Scanner;

class Main {
    public static void main(String[] args) {
        System.out.println("lets calculate the velocity of a ball thrown in space");
        Scanner scanner = new Scanner(System.in);
        System.out.println("enter the distance the ball is thrown");
        double  distance = scanner.nextInt();//asks for input
        System.out.println("enter the time it took for the ball to travel that distance");
        double time = scanner.nextInt();//asks for input
        double velocity = distance/time;
        System.out.println(velocity + " meters/second");
        /*  velo calculator

       simple code that take the distance that the ball travels and divides it by the time it takes for
it to travel that distance.
        */
    }
}
```

Circumference of a circle code.

```
/*
Name: Zainulabdin Bughio
course name: ICS4UA.3
Code name: circumference_calc.java
*/
import java.util.Scanner;

class Main {
    public static void main(String[] args) {
        System.out.println("lets calculate the circumference of a circle");
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter the radius of your circle");
        double  radius = scanner.nextInt();
        double circumference = Math.PI*2*radius;// uses Math.PI to access the full value of PI
        System.out.println("circumference is " + circumference + " meters");
        /*  circumference calculator
```

```
      simple code that takes the radius and uses the math library to use the detailed value of PI
and multplies them together along with multiplying them by 2 to get the circumfrenece of a circle
       */
   }
}
```

Code for fahrenheit to celsius converter

```
/*
Name: Zainulabdin Bughio
course name: ICS4UA.3
Code name: Fahrenheit to celsuis_converter.java
*/
import java.util.Scanner;

class Main {
   public static void main(String[] args) {
      System.out.println("lets convert from Fahrenheit to Celsuis ");
      Scanner scanner = new Scanner(System.in);
      System.out.println("enter the temperature in Fahrenheit");
      double  fahrenheit = scanner.nextInt();
      double process = 5.0 / 9.0;//does the math in 2 parts
      double work = fahrenheit - 32;// second part of the math
      double celsuis = work*process;//puts it together
      System.out.println(celsuis + " degrees celsuis");
      /*  celsuis converter

      simple code that takes temp in fahrenheit and converts it into celsuis by doing some
process work and then multiplying the 2 parts of the proccess together.
       */
   }
}
```