Simple Java Programs

1. To find sum of two numbers

```
// Program to find sum of two numbers

import java.util.Scanner;

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

	Scanner Ob1 = new Scanner(System.in);

	System.out.println("Enter value of a: ");
	int a = Ob1.nextInt();

	System.out.println("Enter value of b: ");
	int b = Ob1.nextInt();

	int c = a+b;
	System.out.println("Sum of given two numbers is: " +c);
	}
}
```

2. Finding Area of the square

```
// Program to find area of a square

import java.util.Scanner;

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

	Scanner Ob1 = new Scanner(System.in);

	System.out.println("Enter length of sqaure L: ");
	int L = Ob1.nextInt();

	int area = L*L;

	System.out.println("Area of square is: " +area);
	}
}
```

3. Finding Area of the rectangle

```
// Program to find area of rectangle

import java.util.Scanner;

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

      Scanner Ob1 = new Scanner(System.in);

      System.out.println("Enter side length a: ");
      int a = Ob1.nextInt();

      System.out.println("Enter side length b: ");
      int b = Ob1.nextInt();

      int area = a*b;

      System.out.println("Area of rectangle is is: " +area);
      }
}
```

4. Area of a triangle where three sides are given

```
// Program to find area of triangle
// Input values a=5, b =8, c =10

import java.util.Scanner;

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

      Scanner Ob1 = new Scanner(System.in);

      System.out.println("Enter side length a: ");
      int a = Ob1.nextInt();

      System.out.println("Enter side length b: ");
      int b = Ob1.nextInt();

      System.out.println("Enter side length c: ");
      int c = Ob1.nextInt();

      float s = (a+b+c)/2;

      double area = Math.sqrt(s*(s-a)*(s-b)*(s-c));

      System.out.println("Area of Triangle is is: " +area);
      }
}
```

5. Find the area & perimeter of a square

```
// Area & Perimeter of a square

import java.util.Scanner;

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

	Scanner Ob1 = new Scanner(System.in);

	System.out.println("Enter length of sqaure L: ");
	int L = Ob1.nextInt();

	int A = L*L;
	int P = 4*L;

	System.out.println("Area of square = : " +A);
	System.out.println("Perimeter of square = : " +P);
	}
}
```

6. Calculating the average for 3 numbers

```
// Average of 3 numbers

import java.util.Scanner;

public class Avg3Nums{
	public static void main(String [] args){

	Scanner Ob1 = new Scanner(System.in);

	System.out.println("Enter value of A: ");
	int A = Ob1.nextInt();

	System.out.println("Enter value of B: ");
	int B = Ob1.nextInt();

	System.out.println("Enter value of C: ");
	int C = Ob1.nextInt();

	float Avg = (A+B+C)/3;

	System.out.println("Average is: " +Avg);
	}
}
```

7. Greatest of two numbers

```
// Greatest of two numbers

import java.util.Scanner;

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

	Scanner Ob1 = new Scanner(System.in);

	System.out.println("Enter value of A: ");
	int A = Ob1.nextInt();

	System.out.println("Enter value of B: ");
	int B = Ob1.nextInt();

	if (A>B)
	    System.out.println("A is Larger ");
	else
	    System.out.println("B is Larger ");
		}
}
```

8. Interchange the value of two variables

```
// Interchange two variables

import java.util.Scanner;

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

	Scanner Ob1 = new Scanner(System.in);

	System.out.println("Enter value of a: ");
	int a = Ob1.nextInt();

	System.out.println("Enter value of b: ");
	int b = Ob1.nextInt();

	int c = a;
	a = b;
	b = c;

	System.out.println("values after swapping: ");
	System.out.println(+a);
	System.out.println(+b);
		}
}
```

9. Calculate simple interest using the expression (SI=PNR/100)

```
// Simple Interest

import java.util.Scanner;

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

	Scanner Ob1 = new Scanner(System.in);

	System.out.println("Enter value of P: ");
	int P = Ob1.nextInt();

	System.out.println("Enter value of N: ");
	int N = Ob1.nextInt();

	System.out.println("Enter value of R: ");
	int R = Ob1.nextInt();

	float SI = (P*N*R)/100;
	System.out.println("Simple Interest is: " +SI);
		}
}
```

10. Convert temperature from Fahrenheit to Celsius

```
// Fahrenheit to Celsius

import java.util.Scanner;

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

	Scanner Ob1 = new Scanner(System.in);

	System.out.println("Enter Fahrenheit value F: ");
	int F = Ob1.nextInt();

	float C = (F-32)*5/9;

	System.out.println("Temp in Celsius is: " +C);
			}
}
```

11. Draw a flowchart for computing factorial N, where N! = 1 * 2 * 3 * …… N

```
// Factorial of number

import java.util.Scanner;

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

      Scanner Ob1 = new Scanner(System.in);

      System.out.println("Enter value of N: ");
      int N = Ob1.nextInt();

      int F =1;
      for(int i =1; i<=N; i++)
          F = F*i;

      System.out.println("Factorial of N is: " +F);
                        }
}
```

12. Find the Sum of First 5 Natural Numbers

```
// Sum of First 5 Natural Numbers

import java.util.Scanner;

public class Sum5{
      public static void main(String [] args){

      int sum = 0;

      for(int count =1; count<=5; count++)
            sum = sum + count;

      System.out.println("Sum  is: " +sum);
                        }
}
```

13. Calculating sum of integers 1 to 100

```
// Sum of integers 1 to 100

import java.util.Scanner;

public class Sum1to100{
      public static void main(String [] args){

      int sum = 0;

      for(int i =1; i<101; i++)
            sum = sum + i;

      System.out.println("Sum  is: " +sum);
                        }
}
```

14. To find the sum of n natural Numbers

```
// sum of n natural Numbers

import java.util.Scanner;

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

      Scanner Ob1 = new Scanner(System.in);
      System.out.println("Enter value of n:");
      int n = Ob1.nextInt();

      int sum = 0;

        for(int i =1; i<=n; i++)
            sum = sum + i;
       System.out.println("Sum of integers upto n is:");
       System.out.println("Sum  is: " +sum);
                        }
}
```

15. Sum of squares of n natural numbers

```
// Sum of squares of n natural numbers

import java.util.Scanner;

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

      Scanner Ob1 = new Scanner(System.in);
      System.out.println("Enter value of n:");
      int n = Ob1.nextInt();

      int sum = 0;

        for(int i =1; i<=n; i++)
            sum = sum + i*i;
       System.out.println("Answer is:" +sum);
                        }
}
```

16. To find the sum of all even numbers up to 'n'

```
// Sum of all even numbers up to 'n'

import java.util.Scanner;

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

      Scanner Ob1 = new Scanner(System.in);
      System.out.println("Enter value of n:");
      int n = Ob1.nextInt();

      int sum = 0;
      int count = 0;
      while(count<=n)
            {
              sum = sum + count;
              count = count +2;
            }

       System.out.println("Answer is:" +sum);
                        }
}
```

17. To find Product of numbers up to N

```
// Product of numbers upto N

import java.util.Scanner;

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

      Scanner Ob1 = new Scanner(System.in);
      System.out.println("Enter value of n:");
      int n = Ob1.nextInt();

      int prod = 1;

        for(int i =1; i<=n; i++)
            prod = prod * i;

       System.out.println("Product of numbers upto n is:");
       System.out.println(+prod);
                        }
}
```

18. Sum of first 50 odd numbers

```
// Sum of first 50 odd numbers

import java.util.Scanner;

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

      int sum = 0;
      int count =1;

      while(count<=99)
            {
              sum = sum + count;
              count = count +2;
            }

       System.out.println("Answer is:" +sum);
                        }
}
```