```
public class PrimeCheck {

   public static void main(String[] args) {
      Scanner input = new Scanner(System.in);
      System.out.println("Enter your number: ");
      int x = input.nextInt();
      int count = 0;

      for (int i = 1; i <= x; i++) {
         if (x % i == 0) {
            count++;
         }
      }
      if (count == 2) {
         System.out.println("is Prime");
      } else {
         System.out.println("not prime");
      }
   }
}

public class Factorial {

   public static void main(String[] args) {
      Scanner input = new Scanner(System.in);
      System.out.println("Enter your number: ");
      int a = input.nextInt();
      int fact = 1;
```

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        for (int i = a; i > 1; i--) {
            fact *= i;
        }
        System.out.println(fact);
    }
}


public class SentinalValue {

    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int sum = 0;

        for (int i = 0; i > -1; i++) {
            System.out.println("Enter your number: ");
            int x = input.nextInt();
            if (x > 0) {
                sum += x;
            } else {
                break;
            }
        }
        System.out.println(sum);
    }
}


public class TwoDArraySort {

    public static void main(String[] args) {
        int sum = 0;
        int[][] data = {
            {4, 5, 8, 0, 7, 0, 2, 5},
            {4, 5, 8, 0, 7, 0, 2, 5},
```

```
            {4, 5, 8, 0, 7, 0, 2, 5},
            {4, 5, 8, 0, 7, 0, 2, 5}
        };
        System.out.println("Data Table");

        for (int[] d : data) {
            Arrays.sort(d);
            for (int a : d) {
                System.out.println(a);
                sum += a;
            }
            System.out.println();
        }
        System.out.println("Total = " + sum);
    }
}

public class Palindrome {

    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.println("Enter your  number: ");
        String s = input.next();

        int low = 0;
        int high = s.length() - 1;
        boolean isPalindrome = true;

        while (low < high) {
            if (s.charAt(low) != s.charAt(high)) {
                isPalindrome = false;
                break;
            }
            low++;
            high--;
```

```
        }
        if (isPalindrome) {
            System.out.println("is palindrome");
        } else {
            System.out.println("not palindrome");
        }
    }
}
public class BiggestNumberFrom3 {

    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.println("Enter your number: ");
        isBiggestNumber(input.nextInt(), input.nextInt(), input.nextInt());
    }

    static void isBiggestNumber(int n1, int n2, int n3) {
        if (n1 > n2 && n1 > n3) {
            System.out.println(n1 + " is biggest");
        } else if (n2 < n1 && n2 > n3) {
            System.out.println(n2 + " is biggest");
        } else if (n3 > n1 && n3 > n1) {
            System.out.println(n3 + " is biggest");
        } else {
            System.out.println(n1 + " " + n2 + " " + n3 + " all are equals");
        }
    }

}
public class MaxMin {

    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.println("Enter your number: ");
        int length = input.nextInt();
```

```
        int a[] = new int[length];


        int max = 0;
        int min = 0;


        for (int i = 0; i < length; i++) {
            System.out.println("Enter your number: ");
            a[i] = input.nextInt();


            if (i == 0) {
                max = a[i];
                min = a[i];
            } else if (a[i] < max) {
                max = a[i];
            } else if (a[i] > min) {
                min = a[i];
            } else {
                continue;
            }
        }
        System.out.println("Biggest numbr is: " + max);
        System.out.println("Lowest numbr is: " + min);
    }
}
```