

## 1.ARMSTRONG NUMBER:

**package** basics;

```
public class Armstrong {  
    public static void main(String[] args) {  
        int c = 0, a, temp;  
        int n = 153;  
        temp = n;  
        while (n > 0) {  
            a = n % 10;  
            n = n / 10;  
            c = c + (a * a * a);  
        }  
        if (temp == c)  
            System.out.println("armstrong number");  
        else  
            System.out.println("Not armstrong number");  
    }  
}
```

o/p:

armstrong number

## 2.ASECNDING ORDER:

**package** basics;

**import** java.util.Scanner;

```
public class Ascending {  
    public static void main(String[] args) {  
        int n, temp;  
        Scanner s = new Scanner(System.in);  
        System.out.print("Enter no. of elements you want in array:");  
        n = s.nextInt();  
        int a[] = new int[n];  
        System.out.println("Enter all the elements:");  
        for (int i = 0; i < n; i++) {  
            a[i] = s.nextInt();  
        }  
        for (int i = 0; i < n; i++) {  
            for (int j = i + 1; j < n; j++) {  
                if (a[i] > a[j]) {  
                    temp = a[i];  
                    a[i] = a[j];  
                    a[j] = temp;  
                }  
            }  
        }  
    }  
}
```

```

        System.out.print("Ascending Order:");
        for (int i = 0; i < n - 1; i++) {
            System.out.print(a[i] + " ");
        }
        System.out.print(a[n - 1]);
    }
}

```

o/p:

Enter no. of elements you want in array:5

Enter all the elements:

1  
2  
3  
4  
5

Ascending Order:1 2 3 4 5

### 3.DECENDING ORDER:

**package** basics;

**import** java.util.Scanner;

```

public class Ascending {
    public static void main(String[] args) {
        int n, temp;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter no. of elements you want in array:");
        n = s.nextInt();
        int a[] = new int[n];
        System.out.println("Enter all the elements:");
        for (int i = 0; i < n; i++) {
            a[i] = s.nextInt();
        }
        for (int i = 0; i < n; i++) {
            for (int j = i + 1; j < n; j++) {
                if (a[i] < a[j]) {
                    temp = a[i];
                    a[i] = a[j];
                    a[j] = temp;
                }
            }
        }
        System.out.print("Descending Order:");
        for (int i = 0; i < n - 1; i++) {
            System.out.print(a[i] + " ");
        }
    }
}

```

```

        }
        System.out.print(a[n - 1]);
    }
}

```

O/P:

Enter no. of elements you want in array:5

Enter all the elements:

1  
2  
3  
4  
5

Ascending Order:5 4 3 2 1

#### 4.CHARACTER COUNT:

**package** basics;

**import** java.util.HashMap;

```

public class CharCount {
    public static void main(String[] args) {
        String line;
        int value;
        HashMap<Character,Integer> map = new HashMap<Character,Integer>();
        line = "Rajasekar Arunachalam";
        line = line.toLowerCase();
        for (int i=0; i<line.length(); i++){
            if(map.containsKey(line.charAt(i))){
                value = map.get(line.charAt(i));
                value ++;
                map.put(line.charAt(i),value);
            }else{
                map.put(line.charAt(i),1);
            }
        }
        for ( Character key : map.keySet()){
            System.out.println("Character : "+key+" Count :"+map.get(key));
        }
    }
}

```

O/P:

Character : ' ' Count :1

Character : 'a' Count :7

Character : 'c' Count :1  
Character : 'e' Count :1  
Character : 'h' Count :1  
Character : 'j' Count :1  
Character : 'k' Count :1  
Character : 'l' Count :1  
Character : 'm' Count :1  
Character : 'n' Count :1  
Character : 'r' Count :3  
Character : 's' Count :1  
Character : 'u' Count :1

## 5.FIBONACCI SERIES:

**package** basics;

```
public class Fibonacci {  
    public static void main(String[] args) {  
        int n, a = 0, b = 0, c = 1;  
        n = 10;  
        System.out.print("Fibonacci Series:");  
        for (int i = 1; i <= n; i++) {  
            a = b;  
            b = c;  
            c = a + b;  
            System.out.print(a + " ");  
        }  
    }  
}
```

O/P:

Fibonacci Series:0 1 1 2 3 5 8 13 21 34

## 6. LARGEST NUMBER

**package** basics;

```
import java.sql.Array;  
import java.util.Arrays;
```

```
public class Largestnumber {  
    public static int largestNumber(int[] a, int total) {  
        // int temp;  
        // for (int i = 0; i < total; i++) {
```

```

        // for (int j = i + 1; j < total; j++) {
        // if (a[i] < a[j]) {
        // temp = a[i];
        // a[i] = a[j];
        // a[j] = temp;
        // }
        // }
        // }

        Arrays.sort(a);
        return a[total - 1];
    }

    public static void main(String args[]) {
        int a[] = { 1, 2, 5, 6, 3, 2 };
        int b[] = { 44, 66, 99, 77, 33, 22, 55 };
        System.out.println("Second Largest: " + largestNumber(a, 6));
        System.out.println("Second Largest: " + largestNumber(b, 7));
    }
}

```

o/p:

Second Largest: 6  
 Second Largest: 99

## 7.NUMBER PALINDROME:

**package** basics;

```

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

        int givennumber = 121;
        int number = givennumber;
        int reverse = 0;

        while (number > 0) {

```

```

        int remainder = number % 10;
        reverse = reverse * 10 + remainder;
        number = number / 10;
    }

    if (givennumber == reverse) {
        System.out.println("Result:Palindrome");
    } else {
        System.out.println("Result:Not Palindrome");
    }
}
}

```

O/P:

Result:Palindrome

## 8.NUMBER REVERSE:

**package** basics;

```

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

        int num, reversenum = 0;
        num = 123456789;
        while (num > 0) {
            reversenum = reversenum * 10;
            reversenum = reversenum + num % 10;
            num = num / 10;
        }

        System.out.println("Reverse of input number is: " + reversenum);
    }
}

```

O/P:

Reverse of input number is: 987654321

## 9.PRIME NUMBER:

**package** basics;

```
public class PrimeExample {  
    public static void main(String args[]) {  
  
        int i = 0;  
        int num = 0;  
        String primeNumbers = "";  
  
        for (i = 1; i <= 100; i++) {  
            int counter = 0;  
            for (num = i; num >= 1; num--) {  
                if (i % num == 0) {  
                    counter = counter + 1;  
                }  
            }  
            if (counter == 2) {  
                primeNumbers = primeNumbers + i + " ";  
            }  
        }  
        System.out.println("Prime numbers from 1 to 100 are :");  
        System.out.println(primeNumbers);  
    }  
}
```

O/P:

Prime numbers from 1 to 100 are :

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97

## 10.STRING PALINDROME:

**package** basics;

```
public class Stringpalindrome {  
    public static void main(String[] args) {  
  
        String str="racecar";  
        String revstring="";  
  
        for(int i=str.length()-1;i>=0;--i){  
            revstring =revstring + str.charAt(i);  
        }  
  
        System.out.println(revstring);  
  
        if(revstring.equalsIgnoreCase(str)){
```

```

System.out.println("The string is Palindrome");
}
else{
System.out.println("Not Palindrome");
}

}
}

```

O/P:

The string is Palindrome

## 11.STRING REVERSE:

**package** basics;

```

public class StringReverse {
    public static void main(String[] args) {
        String list = "rajasekar";
        for (int i = list.length()-1; i >=0; i--) {
            char string = list.charAt(i);
            System.out.print(string);
        }

    }
}

```

O/P:

Rakesajar

## 12.UPPER CASE, LOWER CASE, DIGITS & SPECIAL CHAR COUNT:

**package** basics;

**import** org.openqa.selenium.WebDriver;

```

public class vowelCount {
    static WebDriver driver;

    public static void main(String[] args) {
        String line = "This weBsite Is Awesom3#$%$% ";
        String num = "" ;
        int vowels = 0, consonants = 0, digits = 0, spaces = 0, sc = 0;
        for (int i = 0; i < line.length(); ++i) {
            char ch = line.charAt(i);
            if ((ch >= 'A' && ch <= 'Z')) {
                ++vowels;
            }
        }
    }
}

```



```

        num = num + line.charAt(i);
        System.out.print(num);
    }
    else if ((ch >= 'a' && ch <= 'z')) {
        ++consonants;
        Character.isLowerCase(ch);
        System.out.print(ch);
    } else if (ch >= '0' && ch <= '9') {
        ++digits;
        Character.isDigit(ch);
        System.out.print(ch);
    } else if (ch <= ' ') {
        ++spaces;
        Character.isWhitespace(ch);
        System.out.print(ch);
    } else if (ch >= '!' && ch <= '*') {
        ++sc;
    }

}

System.out.println("uppercase:" + vowels);
System.out.println("Vowels: " + vowels);
System.out.println("Consonants: " + consonants);
System.out.println("Digits: " + digits);
System.out.println("White spaces: " + spaces);

System.out.println("special char:" + sc);
}
}

```

O/P:

Vowels: 4  
 Consonants: 15  
 Digits: 1  
 White spaces: 3  
 special char:8

### 13.WORD COUNT:

**package** basics;

**public class** Wordcount

```

{
    public static void main(String args[])
    {
        String s = "welcome to candid java tutorial";
    }
}

```

```

    int count = 1;

    for (int i = 0; i < s.length() - 1; i++)
    {
        if ((s.charAt(i) == ' ') && (s.charAt(i + 1) != ' '))
        {
            count++;
        }
    }
    System.out.println("Number of words in a string = " + count);
}
}

```

O/P:

Number of words in a string = 5

## 14.WORD REVERSE:

**package** basics;

```

public class WordReverse {
    public void reverseWordInMyString(String str) {
        String[] words = str.split(" ");
        String reversedString = "";
        for (int i = 0; i < words.length; i++) {
            String word = words[i];
            String reverseWord = "";
            for (int j = word.length() - 1; j >= 0; j--) {
                reverseWord = reverseWord + word.charAt(j);
            }
            reversedString = reversedString + reverseWord + " ";
        }
        System.out.println(str);
        System.out.println(reversedString);
    }

    public static void main(String[] args) {
        WordReverse obj = new WordReverse();
        obj.reverseWordInMyString("Welcome to BeginnersBook");
        obj.reverseWordInMyString("This is an easy Java Program");
    }
}

```

O/P:

Welcome to BeginnersBook  
emocleW ot kooBsrennigeB

This is an easy Java Program  
sihT si na ysae avaJ margorP