

```
1 public class Armstrong {
2
3     public static void main(String[] args) {
4
5         int number = 371, originalNumber, remainder, result = 0;
6
7         originalNumber = number;
8
9         while (originalNumber != 0)
10        {
11            remainder = originalNumber % 10;
12            result += Math.pow(remainder, 3);
13            originalNumber /= 10;
14        }
15
16        if(result == number)
17            System.out.println(number + " is an Armstrong number.");
18        else
19            System.out.println(number + " is not an Armstrong number.");
20    }
21 }
22
```

STDIN

Output:

371 is an Armstrong number.

```
1 import java.util.Scanner;
2
3 public class CharacterSearch {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.print("Enter the string: ");
7         String str = sc.nextLine();
8         System.out.print("Enter the character to be searched: ");
9         char searchChar = sc.next().charAt(0);
10        boolean found = false;
11
12        for (int i = 0; i < str.length(); i++) {
13            if (str.charAt(i) == searchChar) {
14                System.out.println(searchChar + " is found in string at index: " + i);
15                found = true;
16                break;
17            }
18        }
19
20        if (!found) {
21            System.out.println(searchChar + " is not found in the string.");
22        }
23    }
24 }
25
26
```

mritshamurali
alisha

ing: Enter the character to be searched: a is found in string at index: 6

```
1 import java.util.Scanner;
2
3 public class SpecialCharacters {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.print("Enter a string: ");
7         String str = sc.nextLine();
8         int count = 0;
9
10        System.out.print("Special characters: ");
11        for (int i = 0; i < str.length(); i++) {
12            char ch = str.charAt(i);
13            if (!Character.isLetterOrDigit(ch) && !Character.isWhitespace(ch)) {
14                System.out.print(ch + " ");
15                count++;
16            }
17        }
18        System.out.println("\nNumber of Special characters = " + count);
19    }
20 }
21
```

mritshamurali

Output:

Enter a string: Special characters:
Number of Special characters = 0

```
1 import java.util.Scanner;
2
3 public class CountVowels {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.print("Enter a statement: ");
7         String str = sc.nextLine();
8         int vowelCount = 0;
9
10        for (int i = 0; i < str.length(); i++) {
11            char ch = str.charAt(i);
12            if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' ||
13                ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U') {
14                vowelCount++;
15            }
16        }
17
18        System.out.println("Number of vowels = " + vowelCount);
19    }
20 }
21
```

mritshamurali

Output:

Enter a statement: Number of vowels = 5


```
1 import java.util.Scanner;
2
3 public class ConsonantsAndVowels {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.print("Given Word: ");
7         String word = sc.next();
8
9         System.out.print("Consonants: ");
10        for (int i = 0; i < word.length(); i++) {
11            char ch = word.charAt(i);
12            if (!isVowel(ch)) {
13                System.out.print(ch + " ");
14            }
15        }
16
17        System.out.print("\nVowels: ");
18        for (int i = 0; i < word.length(); i++) {
19            char ch = word.charAt(i);
20            if (isVowel(ch)) {
21                System.out.print(ch + " ");
22            }
23        }
24    }
25
26    private static boolean isVowel(char ch) {
27        return (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' ||
28                ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U');
29    }
30 }
31
```

mritshamurali

Output:

Given Word: Consonants: m r t s h m r l
Vowels: i a u a i

```
1 import java.util.Scanner;
2 import java.util.Arrays;
3
4 public class AlphabeticalOrder {
5     public static void main(String[] args) {
6         Scanner sc = new Scanner(System.in);
7         System.out.print("Enter the word: ");
8         String word = sc.next();
9         char[] chars = word.toCharArray();
10
11         Arrays.sort(chars);
12
13         System.out.print("Alphabetical Order: ");
14         for (int i = chars.length - 1; i >= 0; i--) {
15             System.out.print(chars[i] + " ");
16         }
17     }
18 }
19
20
21
```

mritshamurali

Output:

Enter the word: Alphabetical Order: u t s r r m m l i i h a a