

Week 12 : Programming Assignment 4

Due on 2025-04-17, 23:59 IST

Extract the Digits from a Calculator Input String



Problem Statement

In calculator applications, user inputs often contain both numeric values and special characters like operators (+, -, *, etc.).

You are given an input string that may contain both digits and non-digit characters.

Your task is to extract only the **numeric characters** from the input string.

A helper method `extractDigits(String input)` is already provided. It returns a new string that contains only the digit characters from the input.

You are required to write **only one line of code** to call this method and print the result.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	+91-81234-56789	918123456789	918123456789	Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2025-04-16, 23:34 IST

Your last recorded submission was :

```
1 import java.util.Scanner;
2
3 public class W12_P4 {
4
5     // This method takes an input string and returns only the digits from it
6     public static String extractDigits(String input) {
7         String result = "";
8         for (int i = 0; i < input.length(); i++) {
9             char ch = input.charAt(i);
10            if (Character.isDigit(ch)) {
11                result = result + ch;
12            }
13        }
14        return result;
15    }
16
17    public static void main(String[] args) {
18        Scanner sc = new Scanner(System.in);
19        String input = sc.nextLine();
20        System.out.print(extractDigits(input));
21        sc.close();
22    }
23 }
```

Sample solutions (Provided by instructor)

```
1 import java.util.Scanner;
2
3 public class W12_P4 {
4
5     // This method takes an input string and returns only the digits from it
6     public static String extractDigits(String input) {
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14        return result;
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17    public static void main(String[] args) {
18        Scanner sc = new Scanner(System.in);
19        String input = sc.nextLine();
20        System.out.println(extractDigits(input));
21        sc.close();
22    }
23 }
```