



## Programming Test Results (With Test Cases)

### Result Summary

Field	Value
Test ID	41155
Student ID	29195
Programs (with test cases)	4
Total Test Cases	17
Test Cases Passed	17
Fully Passed Programs	4
Partially Passed Programs	0
Failed Programs	0
Overall % (with test cases)	100.00%
Grade	Outstanding

### Programs With Test Cases

#	Program Name	Total TC	Passed	Success Rate	Score /10	Submitted At	Attempts
1	Check if a String is a Palindrome	5	5	100.0%	10	26/11/2025, 17:55:42	0
2	Frequency of Each Character	6	6	100.0%	10	26/11/2025, 14:04:07	0
3	Count Uppercase & Lowercase Letters	3	3	100.0%	10	26/11/2025, 13:23:20	0
4	Check Whether String Contains Digit	3	3	100.0%	10	26/11/2025, 13:20:36	0

### Program Details (With Test Cases)

## Program 1: Check if a String is a Palindrome

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**Languages:** Java

**Score (010):** 10 / 10

**Test Case Summary:** Total: 5 Passed: 5  
Failed: 0 Success: 100.0%

**Attempts:** 0

**Submitted At:** 26/11/2025, 17:55:42

**Description:** Write a program to check whether a given String is a palindrome or not.

Input Format

A single String s

Output Format

Print "Palindrome" if string reads same forward & backward

Else print "Not Palindrome"

If input is empty print "Invalid Input"

**Constraints:** -

**Sample Input:** 1 length of string 1000 Case-sensitive comparison

**Sample Output:** madam

**Explanation:** Palindrome

### Solution Code

```
void main(){
    String str = IO.readln();
    int len=str.length()-1;
    if(str.isEmpty()){
        IO.print("Invalid Input");
    }else{
        boolean isPal=true;
        for(int i =0;i<=len/2;i++){
            char c = str.charAt(i);
            if(c!=str.charAt(len-i))
            {
                isPal=false;
            }
        }
    }
}
```

```
        break;  
    }  
}  
if(isPal)  
{  
    IO.print( "Palindrome" );  
}else  
{  
    IO.print( "Not Palindrome" );  
}  
}  
}
```

## Program 2: Frequency of Each Character

<b>Languages:</b>	Java
<b>Score (010):</b>	10 / 10
<b>Test Case Summary:</b>	Total: 6 Passed: 6
	Failed: 0 Success: 100.0%
<b>Attempts:</b>	0
<b>Submitted At:</b>	26/11/2025, 14:04:07
<b>Description:</b>	Write a program to count the frequency of each character in a String.

## Input Format

## One String input

## Output Format

Print each character and its frequency in separate lines

If input empty print "Invalid Input"

<b>Constraints:</b>	Case-sensitive Include spaces and special characters in counting
<b>Sample Input:</b>	hello world
<b>Sample Output:</b>	h:1 e:1 l:3 o:2 :1 w:1 r:1 d:1
<b>Explanation:</b>	NOTE :- For Empty String validation you have to use trim() method

## Solution Code

```
void main(){
    String ch = IO.readLn();
    char str []= ch.toCharArray();
```

```

if(ch.isEmpty()){
    IO.print("Invalid Input");
    System.exit(0);
}
else{

//apple

for(char a : str){
    int count = 0;
    for(int j=0;j<str.length;j++){
        if(a==str[j]){
            count++;
            str[j]='*';
        }
    }
    if(a!='*'){
        IO.println(a+" : "+count);
    }
}

/*for(char a:str)
{
    IO.println(a);
}*/



}
}

```

### Program 3: Count Uppercase & Lowercase Letters

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<b>Languages:</b>	Java
<b>Score (010):</b>	10 / 10
<b>Test Case Summary:</b>	Total: 3 Passed: 3
	Failed: 0 Success: 100.0%
<b>Attempts:</b>	0
<b>Submitted At:</b>	26/11/2025, 13:23:20
<b>Description:</b>	Write a program to count and print number of uppercase and lowercase letters in a string.
	<b>Input Format :</b>
	-----
	One string input

**Output Format :**

-----  
OnUppercase : x  
Lowercase : y

If no letters print "No alphabets found"  
If input empty "Invalid Input"

**Constraints:** Consider only English alphabets

**Sample Input:** Hello World

**Sample Output:** Uppercase : 2 Lowercase : 8

**Explanation:** NOTE : for empty String validation use trim()

### Solution Code

```
void main(){
    String str = IO.readln();
    int small=0;

    int capital= 0;
    for(int i =0;i<str.length();i++){
        if(str.charAt(0)==' '){
            IO.println("Invalid Input");
            System.exit(0);
        }
        if((str.charAt(i)>='A' ) &&( str.charAt(i)<='Z' )){
            capital++;
        }
        else if((str.charAt(i)>='a' ) && (str.charAt(i)<='z' )){
            small++;
        }
    }
    if(!(small==0||capital==0)){
        IO.println("Uppercase : "+capital);
        IO.println("Lowercase : "+small);
        System.exit(0);
    }
    IO.println("No alphabets found");
}
```

## Program 4: Check Whether String Contains Digit

---

**Languages:** Java

**Score (010):** 10 / 10

**Test Case Summary:** Total: 3 Passed: 3

Failed: 0 Success: 100.0%

**Attempts:** 0

**Submitted At:** 26/11/2025, 13:20:36

**Description:** Write a program to check whether the given String contains any digit.

**Input Format**

A single String input

**Output Format**

"Contains Digit" if digit found

"No Digit" if digit not found

"Invalid Input" if empty string

**Constraints:** Length 200 Use String methods only

**Sample Input:** Hello123

**Sample Output:** Contains Digit

**Explanation:** NOTE : For Empty String validation Use trim()

### Solution Code

```
void main(){
    String str = IO.readln();
    boolean isValid =false;
    for(int i =0;i<str.length();i++){
        if(str.charAt(0)==' '){
            IO.println("Invalid Input");
            System.exit(0);
        }
        if((str.charAt(i)>='0')&&(str.charAt(i)<='9')){
            isValid = true;
        }
    else{
```

```
isValid =false;
}
}
if(isValid){
    IO.println("Contains Digit");
}
else{
    IO.println("No Digit");
}
}
```