

1. Exact Slice Of String

You need to take string input and two other numbers which will be the start and end point of the slice and you need to print that slice of string to the stdout.

Input Format:

You will be taking a string as an input from stdin and two integers one on each line.

Output Format:

You need to print the slice of the string to the stdout.

Constraints:

$1 \leq |S| \leq 10000$

Sample I/O:

Input:

Hello Technicalhub

1

4

Output:

ello

2. Vowels Count

Write a Program to count vowels in a given String.

Input Format :

A single line contains a string S.

Output Format :

Display the words count presented in the given String.

Sample I/O:

Input 1:

aec acoe acet

Output 1:

7

3. Compare Two Strings

Input Format :

Two lines of input contains first line string S1 and Second Line String2.

Output Format :

Both the strings are equal print Strings are Equal otherwise print the result as Strings are not Equal

Sample I/O :

Input 1:

aditya

aditya

Output 1:

Strings are Equal

Input 2:

aditya

adityb

Output 2:

Strings are not Equal

4. String Palindrome

Write a C program to check whether a string is palindrome or not without using string manipulation functions.

A word is said to be a palindrome if the reverse of the word is the same as the word. For example, "abba" is a palindrome, but "abbc" is not a palindrome.

Note: Consider characters are not case sensitive.

Input Format:

First line of input contains a String.

Output Format:

Print the Output According to the Description.

Sample I/O:**Input 1:**

madam

Output 1:

Palindrome

Input 2:

addb

Output 2:

Not Palindrome

5. Sum of all numbers present in the String

Write a program to find the sum of all numbers present in the string as discussed here. Given a string containing both numbers and alphabets, the task is to find the sum of all numbers present in the string.

Input Format:

Input line contains both alphabets and numbers.

Output Format:

Display the count of numbers present in the String.

Sample I/O:**Input:**

abc45def5ghi32

Output:

19

Explanation:

The numbers 4,5,5,3 and 2 are present in the string.

Sum = $4+5+5+3+2 = 19$.

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1 Exact Slice of String

```
import java.util.*;
public class ExactSliceOfString {
    public static void main(String[] args) {
        Scanner read = new Scanner(System.in);
        String s = read.nextLine();
        int a = read.nextInt();
        int b = read.nextInt();

        // Using substring(startIndex, endIndex+1) to get the specified slice
        System.out.println(s.substring(a, b + 1));
    }
}
```

2 Vowels Count

```
import java.util.*;
public class VowelsCount
{
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        String str=sc.nextLine();
        String vowels = "aeiouAEIOU";
        int vowelCount = 0;
        // Using .contains() method on Strings;
        for (char eachChar: str.toCharArray()) {
            if (vowels.contains("" + eachChar)) {
                vowelCount++;
            }
        }
        System.out.println(vowelCount);
    }
}
```

3 Compare Two Strings

```
import java.util.*;
public class CompareTwoStrings {
    public static void main(String[] args) {
        Scanner read = new Scanner(System.in);
        String s1 = read.nextLine();
        String s2 = read.nextLine();
        // Using .equals() method on Strings
        if (s1.equals(s2)) {
            System.out.println("Strings are Equal");
        }
        else {
            System.out.println("Strings are not Equal");
        }
    }
}
```

4 String Palindrome

```
// Solution 1
import java.util.*;
public class StringPalindrome {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        String s = input.nextLine();
        // Using StringBuffer's .reverse() method
        if (s.equals(new StringBuffer(s).reverse().toString())) {
            System.out.print("Palindrome");
        }
        else {
            System.out.print("Not Palindrome");
        }
    }
}
```

```
// Solution 2
import java.util.*;
public class StringPalindrome {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        String s = input.nextLine();
        // Using 2 Pointer Approach
        boolean isPalindrome = true;
        for (int i = 0, j = s.length() - 1; i < j; i++, j--) {
            if (s.charAt(i) != s.charAt(j)) {
                isPalindrome = false;
            }
        }
    }
}
```

```

        break;
    }
}
System.out.print(isPalindrome ? "Palindrome" : "Not Palindrome");
}
}

```

5 Sum of all numbers present in a String

```

import java.util.*;
public class SumOfDigitsInAString {
    public static void main (String[] args) {
        Scanner sc = new Scanner(System.in);
        String s = sc.next();
        int sum = 0;
        for (int i = 0; i < s.length(); i++) {
            if (Character.isDigit(s.charAt(i))) {
                // Subtracting '0' (ASCII 48) from a digit (in character form)
                // gives the integer rep of that digit
                // Ex: '5' - '0' --> 53 - 48 = 5 (int)
                sum += s.charAt(i) - '0';
            }
        }
        System.out.print(sum);
    }
}

```