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Write a program that takes a string as input and find the length of the string.

Program In C

```
#include <stdio.h>
#include <string.h>

int main() {
    char input[100];

    printf("Enter a string: ");
    fgets(input, sizeof(input), stdin);

    // Remove trailing newline character
    input[strcspn(input, "\n")] = '\0';

    int length = strlen(input);
    printf("Length of the string: %d\n", length);

    return 0;
}
```

Explanation:

- In this program:
- We declare a character array input to store the user's input string.
- The fgets function is used to read the user's input, with a limit on the input length to prevent buffer overflow.
- We remove the trailing newline character from the input string using strcspn function.
- The strlen function is used to find the length of the input string.
- Finally, the length of the string is printed to the console.

Output:

```
C
```

```
Enter a string: EasyExamNotes.com
Length of the string: 17
```

Program In Java

```
Java
```

```
import java.util.Scanner;

public class StringLength {
    public static void main(String[] args) {
        String input;
}
```

```
Scanner scanner = new Scanner(System.in);

System.out.print("Enter a string: ");
input = scanner.nextLine();

// Remove trailing newline character
input = input.trim();

int length = input.length();
System.out.println("Length of the string: " + length);
}
```

Explanation:

- 1. import java.util.Scanner;: This line imports the Scanner class from the java.util package. It is used for reading user input.
- 2. public class StringLength: This line declares a public class named StringLength.
- 3. public static void main(String[] args): This is the main method that serves as the entry point of the program.
- 4. String input;: This line declares a string variable named input to store the user input.
- 5. Scanner scanner = new Scanner(System.in);: Creates a new Scanner object named scanner to read user input from the console.
- 6. System.out.print("Enter a string: ");: Prints a prompt message to enter a string.
- 7. input = scanner.nextLine();: Reads the input string using scanner.nextLine().
- 8. input = input.trim();: Removes leading and trailing whitespace from the input string using the trim() method.
- 9. int length = input.length();: Retrieves the length of the input string using the length() method.
- 10. System.out.println("Length of the string: " + length);: Prints the length of the string.

Output

Enter a string: EasyExamNotes.com

Length of the string: 17

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