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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 strchr 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:



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

Program In 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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