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Write a program that prints the reverse of a given string.

## Program In C



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

void reverseString(char str[]) {
    int length = strlen(str);

    for (int i = length - 1; i >= 0; i--) {
        printf("%c", str[i]);
    }
    printf("\n");
}

int main() {
    char str[] = "EasyExamNotes";


    printf("Original string: %s\n", str);
    printf("Reversed string: ");
    reverseString(str);
}
```

```
    return 0;  
}
```

## Explanation:

- In this program, the reverseString function takes a character array str as a parameter.
- It calculates the length of the string using the strlen function.
- Then, it iterates through the characters of the string in reverse order and prints them one by one.
- Finally, it prints a new line character to complete the reversed string.
- In the main function, a character array str is declared with the example string "EasyExamNotes".
- The original string is printed to the console, and then the reverseString function is called with the string as the argument.
- The reversed string is printed by the reverseString function.

## Output:

Output 

```
Original string: EasyExamNotes  
Reversed string: setoNmaxEysaE
```

## Program In Java

Java 

```
public class ReverseString {  
    public static void reverseString(String str) {  
        int length = str.length();  
  
        for (int i = length - 1; i >= 0; i--) {  
            System.out.print(str.charAt(i));  
        }  
        System.out.println();  
    }  
  
    public static void main(String[] args) {  
        String str = "EasyExamNotes";  
  
        System.out.println("Original string: " + str);  
        System.out.print("Reversed string: ");  
        reverseString(str);  
    }  
}
```

### Explanation:

1. The program defines a public class named ReverseString.
2. Inside the class, the program defines a static method named reverseString that takes a String parameter named str.

3. The length of the string is obtained using the `length()` method of the `String` class, and it is stored in the variable `length`.
4. The method then enters a `for` loop that iterates from `length - 1` (the last character index) down to `0` (the first character index).
5. Inside the loop, the method uses the `charAt(i)` method of the `String` class to access the character at the current index `i` in the string `str`. This character is printed using `System.out.print()`.
6. After the loop finishes, a newline character is printed using `System.out.println()` to move the output to the next line.
7. The program also defines a `main` method, which is the entry point of the program.
8. Inside the `main` method, a string `str` is declared and initialized with the value `"EasyExamNotes"`.
9. The original string is printed to the console using `System.out.println()`.
10. The `reverseString` method is called with the `str` string as an argument to reverse the string and print the reversed version.

#### Output

```
Original string: EasyExamNotes  
Reversed string: setoNmaxEysaE
```

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