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Write a program that takes a string as input and convert it to uppercase or lowercase.

Program In C

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

void convertToUppercase(char *str) {
    for (int i = 0; str[i] != '\0'; i++) {
        str[i] = toupper(str[i]);
    }
}

void convertToLowercase(char *str) {
    for (int i = 0; str[i] != '\0'; i++) {
        str[i] = tolower(str[i]);
    }
}

int main() {
    char input[100];
    char choice;

    printf("Enter a string: ");
```

```
fgets(input, sizeof(input), stdin);

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

printf("Enter 'U' to convert to uppercase or 'L' to convert to
lowercase: ");
scanf(" %c", &choice);

if (choice == 'U' || choice == 'u') {
    convertToUpper(input);
    printf("Uppercase string: %s\n", input);
} else if (choice == 'L' || choice == 'l') {
    convertToLower(input);
    printf("Lowercase string: %s\n", input);
} else {
    printf("Invalid choice. Please enter 'U' or 'L'.\n");
}

return 0;
}
```

Explanation:

- In this program:
- We declare a character array input to store the user's input string and a character variable choice to store the user's conversion choice.
- 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 user is prompted to enter 'U' to convert the string to uppercase or 'L' to convert it to lowercase.

- If the user's choice is 'U' or 'u', the convertToUpper function is called to convert the string to uppercase using the toupper function.
- If the user's choice is 'L' or 'l', the convertToLower function is called to convert the string to lowercase using the tolower function.
- Finally, the converted string is printed to the console.

Output:

```
Enter a string: EasyExamNotes
Enter 'U' to convert to uppercase or 'L' to convert to lowercase: U
Uppercase string: EASYEXAMNOTES
```

Program In Java

```
Java
import java.util.Scanner;

public class StringCaseConversion {
    public static void convertToUpper(char[] str) {
        for (int i = 0; i < str.length; i++) {
            str[i] = Character.toUpperCase(str[i]);
        }
    }
}
```

```
public static void convertToLowercase(char[] str) {
    for (int i = 0; i < str.length; i++) {
        str[i] = Character.toLowerCase(str[i]);
    }
}

public static void main(String[] args) {
    char[] input = new char[100];
    char choice;

    Scanner scanner = new Scanner(System.in);

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

    // Remove trailing newline character
    input[input.length - 1] = '\0';

    System.out.print("Enter 'U' to convert to uppercase or 'L' to
convert to lowercase: ");
    choice = scanner.next().charAt(0);

    if (choice == 'U' || choice == 'u') {
        convertToUpper(input);
        System.out.println("Uppercase string: " + new
String(input));
    } else if (choice == 'L' || choice == 'l') {
        convertToLower(input);
        System.out.println("Lowercase string: " + new
String(input));
    } else {
        System.out.println("Invalid choice. Please enter 'U' or
'L'.");
    }
}
```

```
}
```

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 StringCaseConversion:`: This line declares a public class named `StringCaseConversion`.
3. `public static void convertToUpper(char[] str):`: This is a static method that takes a character array `str` as a parameter and converts all characters to uppercase using `Character.toUpperCase()`.
4. `public static void convertToLower(char[] str):`: This is a static method that takes a character array `str` as a parameter and converts all characters to lowercase using `Character.toLowerCase()`.
5. `public static void main(String[] args):`: This is the main method that serves as the entry point of the program.
6. `char[] input = new char[100];`: This line declares a character array named `input` to store the user input.
7. `Scanner scanner = new Scanner(System.in);`: Creates a new `Scanner` object named `scanner` to read user input from the console.
8. `input = scanner.nextLine().toCharArray();`: Reads the input string using `scanner.nextLine()` and converts it to a character array using `toCharArray()`.
9. `input[input.length - 1] = '\0';`: Removes the trailing newline character by replacing it with the null character (`'\0'`).
10. `choice = scanner.next().charAt(0);`: Reads the user's choice character using `scanner.next().charAt(0)`.
11. `if (choice == 'U' || choice == 'u') { ... } else if (choice == 'L' || choice == 'l') { ... }`

else { ... }: This conditional statement checks the user's choice and performs the corresponding case conversion operation or displays an error message for an invalid choice.

12. `System.out.println("Uppercase string: " + new String(input));` and `System.out.println("Lowercase string: " + new String(input));`; These lines convert the character array input back to a string using `new String(input)` and print the resulting uppercase or lowercase string.

Output

```
Enter a string: EasyExamNotes
Enter 'U' to convert to uppercase or 'L' to convert to lowercase: U
Uppercase string: EASYEXAMNOTE
```

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