

Foundations of Technical Programming Week 6 HD Task

You may be asked to demonstrate/explain your work to the tutor, if you are absent/unavailable or fail to demonstrate properly, zero marks will be awarded.



Reminder:

You must analyse the each questions by identifying the input, output and the process. Your submissions should have flowchart, C-program and the screenshot of the output.

Task HD 6.1

Write a C program based on the following instructions

- 1. Create a character array of size 20
- 2. Read a string (without spaces) of size <=19 characters into the array.
- 3. Find the length of the string and print it.
- 4. Remove all duplicate characters in the array. As you remove a duplicate character from the array, the remaining characters should be shifted forward by one position.
- 5. Print the length of the new string.
- 6. Print the new string.
- 7. Attach the output screen shot as shown below.

```
Sara@DESKTOP-5I2SSJH /c/COS10008
$ out1
Enter a string ...
moo_says_cow
The length of the string = 12
The length of the string after removing duplicate characters = 8
The string after removing the duplicate characters = mo_saycw
```