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Assignment week 2

1. Write a C program to concatenate a string. The user is required to input the name of a student and the name of a course enrolled by that student. For example, the message sample is defined as follows:

    Welcome *studentName* to the course *courseName*.

Code:

```c
1    #include<stdio.h>
2    #include<string.h>
3
4    int main (){
5
6        char name[10];
7        char course[10];
8
9        printf("Enter your name: ");
10       scanf("%s", &name);
11       printf("Enter your course name: ");
12       scanf("%s", &course);
13
14       strcat(name," to course ");
15       strcat(name, course);
16
17       printf("welcome %s", name);
18
19   }
```

Result:

```
Enter your name: VIpha
Enter your course name: AMS
welcome VIpha to course AMS
PS C:\Users\Vipha\OneDrive\Documents\I2 2024-2025\S
DP1_Cour>
PS C:\Users\Vipha\OneDrive\Documents\I2 2024-2025\S
DP1_Cour>
```

2. Write a C program to convert an input string, entered by a user, to uppercase and lowercase. E.g: If a user inputs the word *Apple*, then the output of the program should be *APPLE, apple*

Code:

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

int main (){

    char word[10];
    printf("Enter the word:");
    scanf("%s", &word);

    printf("%s, ", strupr(word));
    printf("%s", strlwr(word));

}
```

Result:

```
Enter the word:APPle
APPLE, apple
PS C:\Users\Vipha\OneDrive\Documents\I2 2024-2025\S
DP1_Cour>
PS C:\Users\Vipha\OneDrive\Documents\I2 2024-2025\S
DP1_Cour>
```

3. Write a C program to find the length of an input string. E.g: If a user inputs the word *Book*, then the output of the program should be *The length of the word "Book" is 4.*

Code:

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

int main(){
    char word[100];
    printf("Enter a word to find the length of string: "); scanf("%s", &word);

    int len=strlen(word);
    printf("The length of the word %s is %i", word, len);
}
```

Result:

```
Enter a word to find the length of string: Book
The length of the word Book is 4
PS C:\Users\Vipha\OneDrive\Documents\I2 2024-2025\S
DP1_Cour>
```

4. Write a C program to display the first character and the last character of an input string entered by a user. E.g: If a user inputs the word *Banana*, then the output of the program should be *In word "Banana", the first character is 'B' and the last character is 'a'*

Code:

```c
#include<stdio.h>
#include<string.h>
int main(){
    char words[100];

        printf("Enter a word: "); scanf("%s", &words);

        int len=strlen(words);

        printf("First character of '%s' is '%c'", words, words[0]);
        printf("\nLast character of '%s' is '%c'", words, words[len-1]);

}
```

Result:

```
Enter a word: Banana
First character of 'Banana' is 'B'
Last character of 'Banana' is 'a'
PS C:\Users\Vipha\OneDrive\Documents\I2 2024-2025\S
DP1_Cour>
```