



Green University of Bangladesh
Department of Computer Science and Engineering(CSE)
Faculty of Sciences and Engineering
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Assignment 03
Course Title: Structured Programming
Course Code: CSE 103 Section: DE

Student Details

Name	ID
Md. Israil Fakir	221902125

Submission Date : 11-Sep-22
Course Teacher's Name : Mahbubur Rahaman

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<u>Lab Report Status</u>	
Marks:	Signature:.....
Comments:.....	Date:.....

Problem 01: Access each character of a string and print separately.

Code:

```
1  #include<stdio.h>
2  #include<string.h>
3  int main()
4  {
5      char str[500];
6      int l=0;
7      printf("Enter a string: ");
8      scanf("%s",str);
9      l=strlen(str);
10     for(int i=0;i<l;i++)
11     {
12         printf("%c ",str[i]);
13     }
14
15     return 0;
16 }
17
```

Output:

```
Enter a string: Israil
I s r a i l
Process returned 0 (0x0)   execution time : 8.198 s
Press any key to continue.
```

Problem 02: Compare two strings (same or not).

Code:

```
1  #include<stdio.h>
2  #include<string.h>
3  int main()
4  {
5      char s1[500];
6      char s2[500];
7      int j;
8      printf("Enter 1st string :");
9      scanf("%s",s1);
10     printf("Enter 2nd string :");
11     scanf("%s",s2);
12     j=strcmp(s1,s2);
13     if(j==0)
14     {
15         printf("Same");
16     }
17     else
18     {
19         printf("Not same");
20     }
21     return 0;
22 }
```

Output:

```
Enter 1st string :green
Enter 2nd string :green
Same
Process returned 0 (0x0)   execution time : 37.486 s
Press any key to continue.
```

```
Enter 1st string :Dhaka
Enter 2nd string :Bangladesh
Not same
Process returned 0 (0x0)   execution time : 10.861 s
Press any key to continue.
```

Problem 03: Reverse a string

Code:

```
1  #include<stdio.h>
2  #include<string.h>
3  int main()
4  {
5      char s[500];
6      int re;
7      printf("Enter a string to reverse :");
8      scanf("%s",s);
9      re=strrev(s);
10     printf("Reversed the string : %s",re);
11     return 0;
12 }
13
```

Output:

```
Enter a string to reverse :Dhaka12
Reversed the string : 21akahD
Process returned 0 (0x0)   execution time : 5.958 s
Press any key to continue.
```

Problem 04: Concatenate string without strcat()

Code:

```

1  #include<stdio.h>
2  int main()
3  {
4      char str1[500],str2[500],i,j;
5      printf("Enter 1st string :");
6      scanf("%s",str1);
7      printf("Enter 2nd string :");
8      scanf("%s",str2);
9      for(i=0;str1[i]!='\0';++i);
10     for(j=0;str2[j]!='\0';++j,++i)
11     {
12         str1[i]=str2[j];
13     }
14     str1[i]='\0';
15     printf("Concatenated 2 string:%s",str1);
16     return 0;
17 }
18

```

Output:

```

Enter 1st string :Hi
Enter 2nd string :Hello
Concatenated 2 string:HiHello
Process returned 0 (0x0)   execution time : 4.833 s
Press any key to continue.

```

Problem 05: Find Out number of total characters in a string.

Code:

```

1  #include<stdio.h>
2  #include<string.h>
3  int main()
4  {
5      char s[500];
6      int i;
7      int totalchar=0;
8      printf("Enter a string to count:");
9      gets(s);
10     for(i=0;s[i]!='\0';i++)
11     {
12         totalchar++;
13     }
14     printf("Entered string value :%d",totalchar);
15     getch(s);
16
17     return 0;
18 }
19

```

Output

```

Enter a string to count:Green
Entered string value :5
Process returned 0 (0x0)   execution time : 8.970 s
Press any key to continue.

```

Problem 06: Use the functions strcpy(),strcmp(),strcat(),strncpy()

strcpy()

Code:

```
1  #include<stdio.h>
2  #include<string.h>
3  int main()
4  {
5      char str1[200];
6      char str2[200];
7      printf("Enter the 1st string:");
8      gets(str1);
9      printf("Enter the 2nd string:");
10     gets(str2);
11     printf("1st string :%s",str1);
12     printf("\n2nd string :%s",str2);
13     strcpy(str2,str1);
14     printf("\nAfter copying string 1st:%s",str2);
15     printf("\nAfter copying string 2nd:%s\n",str1);
16     return 0;
17 }
18
```

Output:

```
Enter the 1st string:green
Enter the 2nd string:bangladesh
1st string :green
2nd string :bangladesh
After copying string 1st:green
After copying string 2nd:green

Process returned 0 (0x0)   execution time : 16.389 s
Press any key to continue.
```

strcmp()

Code:

```
1  #include<stdio.h>
2  #include<string.h>
3  int main()
4  {
5      char str1[50];
6      char str2[50];
7      int com;
8      printf("Enter the 1st string:");
9      gets(str1);
10     printf("Enter the 2nd string:");
11     gets(str2);
12     com=strcmp(str1,str2);
13     if(com==0)
14     {
15         printf("There are equal");
16     }
17     else
18     {
19         printf("There are not equal");
20     }
21     return 0;
22 }
23
```

Output:

```
Enter the 1st string:Israil
Enter the 2nd string:Israil
There are equal
Process returned 0 (0x0)   execution time : 11.162 s
Press any key to continue.
```

strcat()

Code:

```
1
2  #include<stdio.h>
3  #include<string.h>
4  int main()
5  {
6      char str1[50];
7      char str2[50];
8      printf("Enter the 1st string:");
9      gets(str1);
10     printf("Enter the 2nd string:");
11     gets(str2);
12     strcat(str1,str2);
13     printf("%s",str1);
14     return 0;
15 }
16
```

Output:

```
Enter the 1st string:gre
Enter the 2nd string:en
green
Process returned 0 (0x0)   execution time : 10.998 s
Press any key to continue.
```