Tutorial 5

Name: Aditi Singh
Batch: C1_1
Roll no.: 16010123020

Q1

```c
#include <stdio.h>
#include <string.h>
int main() {
  printf("Name: Aditi Singh, Batch: C1_1, Roll no. 16010123020 \n\n");
  char s1[50], s2[50],ch='r',s3[50],s4[50];

  printf("Enter string 1:");
  scanf("%s", s1);
  printf("Enter string 2:");
  scanf("%s", s2);

  printf("Length of string %s is: %d\n",s1, strlen(s1));

  printf("String lowercase is: %s\n",strlwr(s1));

  printf("String uppercase is: %s\n",strupr(s1));

  strcat(s1, s2);
  printf("String s1(concatenated):%s\n", s1);

  strcpy(s3,s2);
  printf("String s3(copied):%s\n", s3);

  strncpy(s4,s2,3);
  printf("String s3(3 copied):%s\n", s4);

  printf("strcmp %s & %s:%d\n",s1,s2,strcmp(s1,s2));

  printf("strcmp %s & %s:%d\n",s3,s2,strcmp(s3,s2));
```

```c
    printf("strncmp %s & %s:%d\n",s3,s2,strncmp(s3,s2,3));

    printf("strcmpi %s & %s:%d\n",s1,s2,strcmpi(s1,s2));

    printf("strnicmp %s & %s:%d\n",s1,s2,strnicmp(s1,s2,4));

    char* s5=strdup(s2);
    printf("strdup of %s: %s\n",s2,s5);


    printf("First occurence of %c is: %s\n",ch,strchr(s2,ch));

    char* s6= strrchr(s2,'r');
    printf("String after r is: %s\n", s6);

    printf("First occurence of %s is: %s\n",s2,strstr(s1,s2));

    strset(s4,'a');
    printf("strset as a: %s\n",s4);

    strnset(s2,'a',2);
    printf("strnset as a: %s\n",s2);

    printf("After reversing string is: %s", strrev(s2));
    return 0;
}
```

```
Name: Aditi Singh, Batch: C1_1, Roll no. 16010123020

Enter string 1:hello
Enter string 2:world
Length of string hello is: 5
String lowercase is: hello
String uppercase is: HELLO
String s1(concatenated):HELLOworld
String s3(copied):world
String s3(3 copied):wor
strcmp HELLOworld & world:-1
strcmp world & world:0
strncmp world & world:0
strcmpi HELLOworld & world:-1
strnicmp HELLOworld & world:-1
strdup of world: world
First occurence of r is: rld
String after r is: rld
First occurence of world is: world
strset as a: aaa
strnset as a: aarld
After reversing string is: dlraa
Process returned 0 (0x0)    execution time : 3.468 s
Press any key to continue.
```

Q2

```c
#include <stdio.h>
#include <string.h>
int main() {
  printf("Name: Aditi Singh, Batch: C1_1, Roll no. 16010123020 \n\n");
  char s1[50], s2[50];
  int l1,l2, i=0;

  printf("Enter string 1:");
  scanf("%s", s1);
  printf("Enter string 2:");
  scanf("%s", s2);
  l1=strlen(s1);
  l2=strlen(s2);
  for (i;i<l2;i++)
```

```c
    {
        if (i!=l2)
            {s1[l1+i]=s2[i];}
    }
    printf("%s",s1);
    return 0;
}
```

Name: Aditi Singh, Batch: C1_1, Roll no. 16010123020

Enter string 1:hello
Enter string 2:world
helloworld

Name: Aditi Singh, Batch: C1_1, Roll no. 16010123020

Enter string 1:good
Enter string 2:morning
goodmorning

Name: Aditi Singh, Batch: C1_1, Roll no. 16010123020

Enter string 1:aditi
Enter string 2:singh
aditisingh