```
#include <stdio.h>
      #include<conio.h>
      #include<string.h>
      void main()
       {
           char s1[]="RAIPUR", s2[]="CHHATTISGARH";
           int difference;
           difference=my strcmp(s1,s2);
           if(difference==0)
                printf("\n%s=%s",s1,s2);
 11
           else if(difference>0)
 12
                printf("\n%s>%s",s1,s2);
 13
 14
           else
               printf("\n%s<\%s",s1,s2);
 15
 16
       int my strcmp(char s1[], char s2[])
 17
           int i=0,j;
 19
           while(s1[i]==s2[i])
 20
 21
               if((s1[i]=='\0')||(s2[i]=='\0'))
 22
               break;
 23
               i++;
 24
 25
           return (s1[i]-s2[i]);
 26
PROBLEMS
                DEBUG CONSOLE
                            TERMINAL
Q4String comparision.c: In function 'main':
Q4String comparision.c:9:16: warning: implicit declaration of function 'my strcmp' [-Wimplicit-function-declaration]
    difference=my_strcmp(s1,s2);
RAIPUR>CHHATTISGARH
```

//Program to demonstrate string comparison using user defined function

```
//Program to read and display a string with white spaces
   #include <stdio.h>
 4
   void main()
 6
       char str[20];
 8
       printf("Enter any string");
       gets(str);
 9
       printf("\n The entered string is:");
10
       puts(str);
11
12
13
```

```
+ FullyQualifiedErrorId : CommandNotFoundException

PS G:\C\Assignment4> cd "g:\C\Assignmen4'\" ; if ($?) { gcc Q1String_WhiteSpace.c -o Q1String_WhiteSpace } ; if ($?) { .\Q1String_WhiteSpace } Enter any stringHEllo people

The entered string is:HEllo people
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

```
1 //Program to read and display a character
      #include<stdio.h>
      #include<string.h>
      void main()
      {
   5
           char ch1,ch2;
   6
           printf("Enter any Charecter");
           ch1=getchar();
   8
           printf("\n The Charecter is : ");
   9
           putchar(ch1);
  10
  11 }
  12
PROBLEMS
    OUTPUT
        DEBUG CONSOLE
               TERMINAL
```

The entered string is:HEllo people
PS G:\C\Assignmen4'\" ; if (\$?) { gcc Q2Read\_Display\_char.c -0 Q2Read\_Display\_char } ; if (\$?) { .\Q2Read\_Display\_char }
Enter any CharecterIITnaya

The Charecter is : I

```
{
  7
           char s1[]="RAIPUR", s2[]="CHHATTISGARH";
          printf("\nBefore Concatenation S1=%s S2=%s",s1,s2);
           my strcat(s1,s2);
           printf("\nConcatenated String=%s",s1);
 11
      }
 12
      void my strcat(char s1[],char s2[])
 13
      {
 14
           int i=0,j;
 15
           while(s1[i]!='\0')
 16
 17
           i++;
 18
           j=0;
 19
           while(s2[j]!='\0')
 20
 21
 22
               s1[i++]=s2[j++];
 23
           s1[i++]='\0';
 24
 25
PROBLEMS
                DEBUG CONSOLE
                            TERMINAL
Q3Concatenation String.c:9:5: note: previous implicit declaration of 'my strcat' was here
    my_strcat(s1,s2);
    Before Concatenation S1=RAIPUR S2=CHHATTISGARH
Concatenated String=RAIPURCHHATTISGARH
```

#include <stdio.h>
#include<conio.h>

void main()

```
#include <stdio.h>
       #include<string.h>
      void main()
           char str[10]="strange";
  7
           if(strncmp(&str[2], "ran", 3) == 0)
 11
                printf("\nThe string ran is found in positin 2");
 12
           else
 13
                printf("\nThe string ran is not found");
 14
 15
                DEBUG CONSOLE
                             TERMINAL
PS G:\C\Assignmen4'> cd "g:\C\Assignmen4'\" ; if ($?) { gcc Q5String_comparison_n_char.c -o Q5S
The string ran is not found
```

PS G:\C\Assignmen4'> cd "g:\C\Assignmen4'\"; if (\$?) { gcc Q5String\_comparison\_n\_char.c -o Q5S

//Program to demonstrate string comparison for n characters

C > Assignmen4' > C Q5String\_comparison\_n\_char.c > 分 main()

```
C > Assignmen4' > C Q7Palindrome functionDefine.c > 101 s1
      //Program to check a string is palindrome or not using user defined function
      #include <stdio.h>
      #include<string.h>
      void my strrev(char[],char[]);
      char s1[]="NITIN";
      char d1[10];
      int i, f=1;
      void main()
           printf("String =%s",s1);
           my strrev(s1,d1);
           printf("\nReversed String =%s",d1);
           printf("\n");
           i=0;
           while(s1[i]!='\0')
               if(s1[i]!=d1[i])
                   printf("Not Polindrome");
                   f=0;
                   break;
               i++;
           if(f==1)
               printf("The string is Polindrome");
      void my_strrev(char s1[],char d1[10])
           int i,n;
           n=strlen(s1);
           for(i=0;i<n;i++)
               d1[n-1-i]=s1[i];
           d1[i]='\0';
```

```
C > Assignmen4' > C O8Count vowel Consonat.c > ...
         //Program to count vowels and consonants in a string
         #include <stdio.h>
         #include<string.h>
         #include<ctvpe.h>
         void main()
               char str[40],ch:
               int i, vowel count, con count;
               printf("Enter a sentense");
               gets(str);
               vowel count=con count=0;
               for(i=0:i<strlen(str):i++)
  12
  13
                     if(isalpha(str[i]))
                           ch=tolower(str[i]);
                           if(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u')
                           vowel count++;
                           con count++:
               printf("\nvowels=%d \n consonants=%d",vowel count,con count);
  25
PROBLEMS
              OUTPUT
                         DEBUG CONSOLE
                                            TERMINAL
The string is Polindrome
PS G:\C\Assignmen4'> cd "g:\C\Assignmen4'\" ; if ($?) { gcc Q8Count_vowel_Consonat.c -o Q8Count_vowel_Consonat.c
Enter a sentenseassignment
vowe1s=3
  consonants=7
```

```
//Program to convert lower to upper case and vice versa
      #include <stdio.h>
      #include <string.h>
      int main() {
         char s[100];
         int i;
         printf("\nEnter a string : ");
         gets(s);
         for (i = 0; s[i]!='\0'; i++) {
            if(s[i] >= 'a' \&\& s[i] <= 'z')
                s[i] = s[i] - 32;
            else if(s[i] >= 'A' && s[i] <= 'Z')
                s[i] = s[i] + 32;
         printf("\nString in Upper Case = %s", s);
         return 0;
 20
PROBLEMS
         OUTPUT
                 DEBUG CONSOLE
                               TERMINAL
 consonants=7
PS G:\C\Assignmen4'> cd "g:\C\Assignmen4'\" ; if ($?) { gcc Q9Upper_T0_Lower.c -o Q9Upper_T
Enter a string: hLLo
```

C > Assignmen4' > C Q9Upper\_TO\_Lower.c > ...

```
C > Assignmen4' > C Q10Count_Digits_whiteSpace_OTherchar.c > ...
       //Program to count number of digits, white spaces and other characters
       #include <stdio.h>
       #include<string.h>
      void main()
           char str[30],ch;
           int i,nwhite=0,ndigits=0,nothers=0;
           while((ch=getchar())!='\n')
               switch(ch)
                    case '0' :
                                ndigits++;
                                break;
                    case '\t':
                    case '\n': nwhite++;
                                break;
                    default:
                            nothers++;
           printf("Numbers of \ndigits =%d\nWhite spaces=%d \n other characters =%d",ndigits,nwhite,nothers);
 35
PROBLEMS
          OUTPUT
                  DEBUG CONSOLE
                                TERMINAL
```

Enter a string : hLLo

String in Upper Case = H110

```
//Program to repalce a character with next character (a->b,b->c,...)
      #include <stdio.h>
      #include<string.h>
      #include<ctype.h>
      void main()
           char str[30];
           int i;
           printf("Enter the sentence");
           scanf("%s", str);
           for(i=0;i<strlen(str);i++)
 13
               str[i]++;
           printf("The output string is =%s",str);
PROBLEMS
                  DEBUG CONSOLE
                                TERMINAL
PS G:\C\Assignmen4'> cd "g:\C\Assignmen4'\" ; if ($?) { gcc Q11Replace_Character.c -0 Q11Replace_Character.c
Enter the sentencebhavesh
The output string is =cibwfti
PS G:\C\Assignmen4'> cd "g:\C\Assignmen4'\"; if ($?) { gcc Q11Replace_Character.c -o Q11Replace_Character.c
Enter the sentenceraipur
The output string is =sbjqvs
PS G:\C\Assignmen4'>
```

C > Assignmen4' > C Q11Replace Character.c > 分 main()

```
//Program to find length of a string
      #include <stdio.h>
      #include<string.h>
      int mystrlen(char str[])
      int c=0:
      while(str[c]!='\0')
      c++;
      return c;
      void main()
      char str[]="Chhattisgarh raipur";
 15
      printf("The length of the string is %d ", mystrlen(str));
      printf("Built in value is: %d", strlen(str));
PROBLEMS
         OUTPUT
                  DEBUG CONSOLE
                               TERMINAL
The length of the string is 16 Built in value is: 16
PS G:\C\Assignmen4'> cd "g:\C\Assignmen4'\"; if ($?) { gcc Q12Length_String.c
The length of the string is 19 Built in value is: 19
PS G:\C\Assignmen4'>
```

C > Assignmen4' > C Q12Length\_String.c > 分 main()

```
C > Assignmen4' > C Q13DefineFunction_copy_string.c > 分 main()
       /* User defined function to copy a string*/
       #include <stdio.h>
       #include<string.h>
       void mystrcpy(char dstr[], char sstr[])
       int c=0;
       while(sstr[c]!='\0')
       dstr[c]=sstr[c];
       C++;
       dstr[c]='\0';
       }
       void main()
       char sstr[]="IIIT Naya Raipur";
 18
       char dstr[20];
       mystrcpy(dstr, sstr);
       printf("The copied string is %s ", dstr);
       }
PROBLEMS
                  DEBUG CONSOLE
                                TERMINAL
PS G:\C\Assignmen4'> cd "g:\C\Assignmen4'\" ; if ($?) { gcc Q13Define
The copied string is IIIT Naya Raipur
PS G:\C\Assignmen4'>
```