ASSIGNMENT-8

QUESTION 1

```
#include  <stdio.h>
 int main( )
 {
    char  wd[100], chtr;
    int   i=0;
    printf("enter text \n");
    while(chtr != '\n')
    {
       chtr = getchar();
       wd[i]   = chtr;
       i++;
    }
    printf("\n%s\n", wd);
 }
```

QUESTION 2

```
#include  <stdio.h>
 int main( )
 {
    char  wd[100], chtr;
    int   i=0;
    char st[50];
    printf("enter text \n");
    fgets(st, 50 , stdin);
    puts( st);
 }
```

QUESTION 3

A. UPPERCASE TO LOWER CASE

```
#include <stdio.h>
#include <string.h>
int main()
{
  char str[100];
  printf("enter a string\n");
  gets(str);
  printf("The string in lower case: %s\n", strlwr(str));
  return  0;
}
```

B. LOWERCASE TO UPPER CASE

```
#include <stdio.h>
#include <string.h>
int main()
{
  char str[100];
  printf("enter a string\n");
  gets(str);
  printf("The string in lower case: %s\n", strupr(str));
  return  0;
}
```

B. TOGGLE CASE

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

int main()
{
   char s[1000];
   int i;
```

```
    printf("Enter  the string : ");
    gets(s);
    for(i=0;s[i];i++)
    {
       if(s[i]>=65 && s[i]<=90)
        s[i]+=32;
       else if(s[i]>=97 && s[i]<=122)
        s[i]-=32;
      }
    printf("string in togglecase ='%s'\n",s);

    return 0;
}
```

D.SENTENCE CASE

```
#include <stdio.h>
int firstupper(char str[], int n) {
  int i;
  for(i = 0; i<n; i++) {
    if (i == 0 && str[i] != ' ' || str[i] != ' ' && str[i-1] == ' ') {
      if(str[i] >= 'a' && str[i]<='z') {
        str[i] = (char)(('A'-'a') + str[i] );
      }
    } else if (str[i] >= 'A' && str[i] <= 'Z') {
      str[i] = (char)(str[i] + ('a' - 'A'));
    }
  }
  return 0;
}
int main(int argc, char const *argv[]) {
  char str[] = {"apple is red"};
  int n = sizeof(str);
  firstupper(str, n);
  printf("%s\n", str);
  return 0;
}
```

QUESTION 4

#without using library function

```
#include <stdio.h>
int main() {
 char s1[100] = "people ", s2[] = "are running";
 int l=0, j;
 while (s1[l] != '\0') {
```

```
    l++;
   }
   for (j = 0; s2[j] != '\0'; ++j, ++l) {
    s1[l] = s2[j];
   }
   s1[l] = '\0';

   printf("After concatenation: ");
   puts(s1);

   return 0;
  }
```

#with using library function

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

int main()
{
   char a[100], b[100];

   printf("Enter the first string\n");
   gets(a);
   printf("Enter the second string\n");
   gets(b);
   strcat(a,b);
   printf("String obtained on concatenation is %s\n",a);
   return 0;

}
```

QUESTION 5

#using library function

```
#include <stdio.h>

#include <string.h>

int main()

{

  char s[100];

  printf("Enter a string to reverse\n");

  gets(s);
```

```
  strrev(s);
  printf("Reverse of the string: %s\n", s);
  return 0;
}
```

#without using library function

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

int main() {
  char str[100], temp;
  int i, j = 0;
  printf("\nEnter the string :");
  gets(str);
  i = 0;
  j = strlen(str) - 1;
  while (i < j) {
    temp = str[i];
    str[i] = str[j];
    str[j] = temp;
    i++;
    j--;
  }

  printf("\nReverse string is :%s", str);
  return (0);
}
```

QUESTION 6

#without using function

```
#include <stdio.h>
void main()
{
  char str1[100], str2[100];
  int m,n, i = 0;
     printf("Input the string : ");
     fgets(str1, 100, stdin);

  printf("Input  start position :");
  scanf("%d", &m);

  printf("Input the length of substring :");
  scanf("%d", &n);

  while (i < n)
  {
    str2[i] = str1[m+i-1];
    i++;
  }
  str2[i] = '\0';
  printf("substring is %s", str2);

}
```

#with using function

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

int main()
```

```
{
  char str[50] = "ATTACK ON TITAN";
  printf("The given string is =%s\n",str);
  printf("After reversing string is =%s",strrev(str));
  return 0;
}
```

QUESTION 7

#WITHOUT USING FUNCTION

```
#include<stdio.h>
void main()
{
char strng1[50], strng2[50]; int i;
printf("Enter a string\n");
scanf("%s", strng2);
for(i=0; strng2[i]!='\0'; i++)
{
 strng1[i]=strng2[i];
}
strng1[i]='\0';
printf("\n");
printf("after copy:%s\n", strng1);
printf("number of charcters copied = %d\n", i);

}
```

#WITH USING FUNCTION

```
#include<stdio.h>
void main()
{
int a;
```

```
char strng1[50], strng2[50]; int i;
printf("Enter a string\n");
scanf("%s", strng2);
for(i=0; strng2[i]!='\0'; i++)
{
 strng1[i]=strng2[i];
}
strng1[i]='\0';
printf("\n");
printf("after copy:%s\n", strng1);
a=strlen(strng2);
printf("number of charcters copied = %d\n", a);

}
```

QUESTION 8

```
#include <stdio.h>
#include <string.h>
int main()
{
char a[100], b[100];

printf("Enter the string : ");
gets(a);
strcpy(b, a);
strrev(b);
if (a == b)
printf("The string is a palindrome\n");
else
printf("The string is not t a palindrome\n");
```

```
return 0;
}
```

QUESTION 9

```
#include <string.h>

int main()
{
   char s[1000],w[1000];
   int n,a[1000],i,j,k=0,l,found=0,t=0;

   printf("Enter  the string : ");
   gets(s);
   printf("Enter word to be searched: ");
   gets(w);
   for(i=0;s[i];i++)
   {
         if(s[i]==' ')
         {
               a[k++]=i;
               }
         }
         a[k++]=i;
         j=0;
         for(i=0;i<k;i++)
         {
               n=a[i]-j;
               if(n==strlen(w))
               {
                     t=0;
                     for(l=0;w[l];l++)
```

```
                {
                        if(s[l+j]==w[l])
                        {
                                t++;
                        }
                }
                if(t==strlen(w))
          {
                        found++;

          }
        }

        j=a[i]+1;
    }

     printf("word '%s' is occurred count=%d ",w,found);


}
```

QUESTION 10

```
#include"stdio.h"
#include"string.h"

void main()
{
char str[20], k;
int i, j;

printf("Enter a string: \n");
```

```
scanf("%s", str);
for(i=0; str[i] != '\0'; i++)
{
for(j=i+1; str[j] != '\0'; j++)
{
if(str[i] > str[j])
{
   k= str[i];
  str[i] = str[j];
   str[j] = k;

  }
 }
}
printf("%s", str);
printf("\n");
}
```

QUESTION 11

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

int main()
{
    int i, t, j, len;
    char str[100];
    printf("Enter a string : " );
    scanf("%s" , str);
    len = strlen(str);
    str[len] = '\0';
    for (t = 0, i = 0; i < strlen(str); i++)
```

```
    {
        if ((str[i] == ' ') && (str[i - 1] == 's'))
        {
            for (j = t; j < i; j++)
                printf("%c" , str[j]);
            t = i + 1;
            printf("\n" );
        }
        else
        {
            if (str[i] == ' ')
            {
                t = i + 1;
            }
        }
    }
    return 0;
}
```

QUESTION 12

```
#include <stdio.h>
#include <string.h>
int main()
{
        char str[100];
        int i, j, k;

        printf("\n Please Enter any String :  ");
        gets(str);

        for(i = 0; i < strlen(str); i++)
```

```
        {
                for(j = i + 1; str[j] != '\0'; j++)
                {
                        if(str[j] == str[i])
                        {
                                for(k = j; str[k] != '\0'; k++)
                                {
                                        str[k] = str[k + 1];
                                }
                        }
                }
        }

        printf("\n The Final String a = %s ", str);

        return 0;
}
```