

ASSIGNMENT-8

Name-Asish kumar prusty

1. #include<stdio.h>

int main()

{

 char name[30];

 printf("Enter the name ");

 scanf("%s",name);

 printf("Name is %s",name);

 return(0);

}

Output:-

Enter the name Asish

Name is Asish

2. #include <stdio.h>

int main()

{

 int b;

 int size = 10;

```

char *string;

printf ("Enter a string: ");

string = (char *) malloc (size);

b = getline (&string, &size, stdin); //stdin- standard input

if (b == -1)

{

    puts ("ERROR!");

}

else

{

    puts ("Entered the string: ");

    puts (string);

}

return 0;

}

```

Output:-

Enter a string: asish kumar

Entered the string: asish kumar

3a. #include<stdio.h>

#include<string.h>

int main()

```

{
    char str[25];

    int i;

    printf("Enter the string: ");

    scanf("%s",str);

    for(i=0;i<=strlen(str);i++)
    {
        if(str[i]>=65&&str[i]<=90)
            str[i]=str[i]+32;
    }

    printf("\nLower Case String is: %s",str);

    return 0;
}

```

Output:-

Enter the string: ASISH

Lower Case String is: asish

b. #include<stdio.h>

#include<string.h>

int main()

{

char str[25];

```
int i;

printf("Enter the string: ");

scanf("%s",str);

for(i=0;i<=strlen(str);i++)
{
    if(str[i]>=97&&str[i]<=122)
        str[i]=str[i]-32;
}

printf("\nUpper Case String is: %s",str);

return 0;
}
```

Output:-

Enter the string: asish

Upper Case String is: ASISH

c. #include <stdio.h>

#include <string.h>

int main()

{

char Str1[100];

int i;

printf("\n Please Enter any String to Toggle : ");

```

    gets(Str1);
    for (i = 0; Str1[i]!='\0'; i++)
    {
        if(Str1[i] >= 'a' && Str1[i] <= 'z')
        {
            Str1[i]=Str1[i]-32;
        }
        else if(Str1[i]>= 'A' && Str1[i]<= 'Z')
        {
            Str1[i]=Str1[i]+32;
        }
    }

    printf("\n The Given String after Toggling Case of all Characters = %s", Str1);

    return 0;
}

```

Output:-

Please Enter any String to Toggle : Asish

The Given String after Toggling Case of all Characters = Asish

d. #include <stdio.h>

#include <string.h>

int main()

```

{

    char str[50]={0};

    int length=0,i=0,j=0,k=0;

    printf("\nEnter the string : ");

    gets(str);

    length = strlen(str);

    for(i=0;i<length;i++)
    {

        if( (i==0) && (str[i]>='a' && str[i]<='z'))

        {

            str[i] = str[i] - 32;

        }

        else if(str[i]=='.')

        {

            if(string[i+1] == ' ')

            {

                if(str[i+2]>='a' && str[i+2]<='z')

                {

                    str[i+2] = str[i+2] - 32;

                }

            }

        }

        else

```

```

        {
            if(str[i+1]>='a' && str[i+1]<='z')
            {
                str[i+1] = str[i+1] - 32;
            }
        }
    }

    printf("Final string is : %s",str);
}

```

Output:-

Enter the string : asish kumar prusty

Final string is : Asish kumar prusty

4a. #include <stdio.h>

int main()

```

{
    char str1[50], str2[50],i,j;

    printf("Enter first string: ");

    scanf("%s",str1);

    printf("Enter second string: ");

    scanf("%s",str2);
}

```

```

for(i=0; str1[i]!='\0'; ++i);
for(j=0; str2[j]!='\0'; ++j, ++i)
{
    str1[i]=str2[j];
}
str1[i]='\0';
printf("Output: %s",str1);
return 0;
}

```

Output:-

Enter first string: Asish

Enter second string: kumar

Output: Asishkumar

b. #include <stdio.h>

#include<string.h>

int main()

{

char s1[20];

char s2[20];

printf("Enter the first string : ");

scanf("%s", s1);


```
printf("\nEnter the second string : ");  
scanf("%s",s2);  
strcat(s1,s2);  
printf("The concatenated string is : %s",s1);  
return 0;  
}
```

Output:-

Enter the first string : Asish

Enter the second string : kumar

The concatenated string is : Asishkumar

5a. #include<stdio.h>

#include<conio.h>

int main()

{

int i, j, k;

char str[100];

char rev[100];

printf("Enter a string:\t");

scanf("%s",str);

printf("The original string is %s\n", str);

for(i = 0; str[i] != '\0'; i++);

```

{
    k = i-1;
}
for(j = 0; j <= i-1; j++)
{
    rev[j] = str[k];
    k--;
}

printf("The reverse string is %s\n", rev);

return 0;
}

```

Output:-

Enter a string: Asish

The original string is Asish

The reverse string is hsisa

b. #include<stdio.h>

#include<string.h>

int main()

```

{
    char name[30] = "Asish";
    printf("String before strrev: %s\n",name);
}

```

```
printf("String after strrev: %s",strrev(name));  
return 0;  
}
```

Output:-

String before strrev: Asish

String after strrev: hsisa

6a. #include <stdio.h>

```
int main()  
{  
    char string[1000], sub[1000];  
    int position, length, c = 0;  
    printf("Input a string\n");  
    gets(string);  
    printf("Enter the position and length of substring\n");  
    scanf("%d%d", &position, &length);  
    while (c < length) {  
        sub[c] = string[position+c-1];  
        c++;  
    }  
    sub[c] = '\0';  
    printf("Required substring is \"%s\"\n", sub);
```

```
    return 0;
}
```

Output:-

Input a string

Asish

Enter the position and length of substring

3

2

Required substring is "is"

b. #include <stdio.h>

#include <string.h>

int main()

{

const char* lineConst = "Asish \"kumar\" prusty";

char line[256];

char *subString;

strcpy(line, lineConst);

subString = strtok(line, "\"");

subString=strtok(NULL, "\"");

printf("the thing in between quotes is '%s'\n", subString);

return 0;

```
}
```

Output:-

the thing in between quotes is kumar

7a. #include <stdio.h>

```
int main()
```

```
{
```

```
    char s1[100], s2[100], i;
```

```
    int count;
```

```
    printf("Enter string s1: ");
```

```
    fgets(s1, sizeof(s1), stdin);
```

```
    for (i = 0; s1[i] != '\0'; ++i) {
```

```
        s2[i] = s1[i];
```

```
        count++;
```

```
    }
```

```
    s2[i] = '\0';
```

```
    printf("String s2: %s", s2);
```

```
    printf("Number of string copied:%d",count);
```

```
    return 0;
```

```
}
```

Output:-

Enter string s1: Asish

String s2: asish

Number of string copied:7

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

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

```
int main()
```

```
{
```

```
    char c[100];
```

```
    char o[100];
```

```
    printf("\n\nEnter the string: ");
```

```
    gets(o);
```

```
    strcpy(c,o);
```

```
    printf("\n\nThe copied string is: %s\n", c);
```

```
    return 0;
```

```
}
```

Output:-

Enter the string: asish

The copied string is: asish

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

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

```
int main()
{
    char string1[20];
    int i, length;
    int flag = 0;
    printf("Enter a string ");
    scanf("%s", string1);
    length = strlen(string1);
    for(i=0;i < length ;i++)
    {
        if(string1[i] != string1[length-i-1])
        {
            flag = 1;
            break;
        }
    }
    if(flag)
    {
        printf("%s is not a palindrome", string1);
    }
    else
    {
```

```
        printf("%s is a palindrome", string1);
    }
    return 0;
}
```

Output:-

Enter the string ram

ram is not a palindrome

9. #include<stdio.h>

#include<string.h>

int main()

{

int strln,wordln,i,j,k,flag,count=0;

char str[200],word[20];

printf("Enter line of text: ");

gets(str);

printf("Enter the word to count: ");

scanf("%s",word);

strln=strlen(str);

wordln=strlen(word);

for(i=0;i<strln;i++)

{


```

if(str[i]==word[0]&&((str[i-1]==' ' || i==0)&&(str[i+wordln]==' ' || str[i+wordln]=='
'))
{
for(flag=0,k=i+1,j=1;j<wordln;j++,k++)
{
if(str[k]==word[j])
{
flag++;
}
}
if(flag==wordln-1)
{
count++;
}
}
}

printf("Number of occurence is %d times",word,count);

return 0;

}

```

Output:-

Enter line of text: asish asish asish

Enter the word to count: asish

Number of occurrence is 2 times

10. #include <stdio.h>

#include <string.h>

int main ()

{

 char string[100];

 printf("Enter the string ");

 scanf("%s",string);

 char temp;

 int i, j;

 int n = strlen(string);

 for (i = 0; i < n-1; i++) {

 for (j = i+1; j < n; j++) {

 if (string[i] > string[j]) {

 temp = string[i];

 string[i] = string[j];

 string[j] = temp;

 }

 }

 }

 printf("The sorted string is %s", string);

```
        return 0;
    }
}
```

Output:-

Enter the string asish

The sorted string is ahiss

11. #include <stdio.h>

#include <string.h>

char str[100];

int main()

{

int i, t, j, len;

printf("Enter a string : ");

scanf("%[^\\n]s", str);

len = strlen(str);

str[len] = ' ';

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;
    }
    else
    {
        if (str[i] == ' ')
        {
            printf("Entered string is not end in S");
            t = i + 1;
        }
    }
}

return 0;
}

```

Output:-

Enter a string : asish

Entered string is not end in S

12. #include <stdio.h>

#include <string.h>

#define SIZE 500

void duplicateRemover(char *, const int);

int main(void)

```

{
    char someString[SIZE];
    puts("Enter text: ");
    fgets(someString, SIZE, stdin);
    someString[strcspn(someString, "\n")] = 0;
    printf("\n%s", "Text without repeated words: ");
    duplicateRemover(someString, SIZE);
}

void duplicateRemover(char *arrayPtr, const int sizeP)
{
    char wordTable[sizeP][sizeP], *tokPtr;
    size_t i, j, k, l;
    tokPtr = strtok(arrayPtr, " ");
    strcpy(wordTable[0], tokPtr);
    for(i = 1; (tokPtr = strtok(NULL, " ")) != NULL; i++)
        strcpy(wordTable[i], tokPtr);
    for(j = 0; j <= i; j++)
        for(k = j + 1; k <= i; k++)
            if(strcmp(wordTable[j], wordTable[k]) == 0)
            {
                for(l = k; l < i; l++)
                    strcpy(wordTable[l], wordTable[l + 1]);
            }
}

```

```
        k = j;

        i--;

    }

    for(l = 0; l <= i; l++)

        printf("%s ", wordTable[l]);

}
```

Output:-

Enter the text:

asish ram ram

Text without repeated words: asish ram

