

# Assignment No.11

**Q1. Write a program to scan string from user then scan a single character and search it in a accepted string.**

**:-Code :-**

//Write a program to scan string from user then scan a single character and search it in a accepted string.

```
#include<stdio.h>
void main(){
    int n,i,check=0;
    char a;
    printf("Enter the size of string :");
    scanf("%d",&n);
    fflush(stdin);
    char str[n];
    printf("Enter the String :");
    fgets(str,n+1,stdin);
    printf("Enter the Character You want to search :");
    a=getch();
    printf("%c",a);
    for(i=0;str[i]!='\0';i++){
        if(str[i]==a){
            printf("\n\n %c character is present on %d position ",a,i);
            check=1;
        }
    }
    if(check==0)
        printf("This Character is not present in string");
}
```

## **Q2. WAP Replace all Occurrences of ‘a’ with \$ in a String**

**:-Code :-**

//WAP Replace all Occurrences of ‘a’ with \$ in a String

```
#include<stdio.h>
void main(){
    int n,i,check=0;
    char a;
    printf("Enter the size of string :");
    scanf("%d",&n);
    fflush(stdin);
    char str[n];
    printf("Enter the String :");
    fgets(str,(n+1),stdin);
    printf("Enter the Character You want to search :");
    a='a';
    for(i=0;str[i]!='\0';i++){
        if(str[i]==a){
            str[i]='$';
            check=1;
        }
    }
    printf("\n %s",str);
    if(check==0)
        printf("This Character a is not present in string");
}
```

### **Q3. WAP to Remove the nth Index Character from a Non-Empty String.**

**:-Code :-**

//WAP to Remove the nth Index Character from a Non-Empty String

```
#include<stdio.h>
void main(){
    int n,i,check=0;
    int c;
    printf("Enter the size of string :");
    scanf("%d",&n);
    fflush(stdin);
    char str[n];
    printf("Enter the String :");
    fgets(str,(n+1),stdin);
    printf("Enter the index You want to delete :");
    scanf("%d",&c);
    for(i=0;str[i]!='\0';i++){
        if(i==c){
            check=1;
        }
        str[i]=str[i+check];
    }
    printf("\n %s",str);
    if(check==0)
        printf("This index is not present in string");
}
```

#### **Q4. WAP to Form a New String where the First Character and the Last Character have been Exchanged.**

**:-Code :-**

//WAP to Form a New String where the First Character and the Last Character have been Exchanged

```
#include<stdio.h>
void main(){
    int n,i,temp;
    printf("Enter the size of string :");
    scanf("%d",&n);
    fflush(stdin);
    char str[n];
    printf("Enter the String :");
    fgets(str,(n+1),stdin);
    temp=str[0];
    str[0]=str[n-1];
    str[n-1]=temp;
    printf("\n %s",str);
}
```

## **Q5. WAP to Count the Number of Vowels in a String**

**-:Code :-**

//WAP to Count the Number of Vowels in a String

```
#include<stdio.h>
void main(){
    int n,i,x=0;
    printf("Enter the size of string :");
    scanf("%d",&n);
    fflush(stdin);
    char str[n];
    printf("Enter the String :");
    fgets(str,(n+1),stdin);

    for(i=0;str[i]!='\0';i++){
        if(str[i]=='a'||str[i]=='e'||str[i]=='i'||str[i]=='o'||str[i]=='u'){
            x++;
        }
    }
    printf("Count of Vowels %d",x);
}
```

## **Q6.WAP to Take in a String and Replace Every Blank Space with special symbol.**

**:-Code :-**

//Accept array and print only prime numbers of array.

```
#include<stdio.h>
void alternum(int* arr,int n);
void main(){
    int n,i;
    printf("Enter the Size of array :");
    scanf("%d",&n);
    int arr[n],even[n],odd[n];
    for(i=0;i<n;i++){
        scanf("%d",&arr[i]);
    }
    alternum(arr,n);
}
void alternum(int* arr,int n){
    int i;
    for(i=1;i<n;i++){
        if(arr[i]==2||arr[i]==3||arr[i]==5||arr[i]==7){
            printf(" %d",arr[i]);
        }
        if((arr[i]%2!=0)&&(arr[i]%3!=0)&&(arr[i]%5!=0)&&(arr[i]%7!=0)){
            printf(" %d",arr[i]);
        }
    }
}
```

## **Q7. WAP to Remove the Characters of Odd Index Values in a String**

**:-Code :-**

//WAP to Remove the Characters of Odd Index Values in a String

```
#include<stdio.h>
void main(){
    int n,i,check=0;
    printf("Enter the size of string :");
    scanf("%d",&n);
    fflush(stdin);
    char str[n];
    printf("Enter the String :");
    fgets(str,n+1,stdin);
    for(i=0;str[i]!='\0';i++){
        if(i%2==1){
            check++;
        }
        str[i]=str[i+check];
    }
    printf("%s",str);
}
```

## **Q8. WAP to Calculate the Number of Words Present in a String**

**:-Code :-**

//WAP to Calculate the Number of Words Present in a String

```
#include<stdio.h>
void main(){
    int n,i,check=1;
    char a;
    printf("Enter the size of string :");
    scanf("%d",&n);
    fflush(stdin);
    char str[n];
    printf("Enter the String :");
    fgets(str,(n+1),stdin);
    a=' ';
    for(i=0;str[i]!='\0';i++){
        if(str[i]==a){
            check++;
        }
    }
    (str[0]=='\0'||'\n')?printf("0"):printf("\n %d",check);
}
```

## **Q9. WAP to Take in Two Strings and Display the Larger String without Using Built-in Functions**

**:-Code :-**

//WAP to Take in Two Strings and Display the Larger String without Using Built-in Functions

```
#include<stdio.h>
void main(){
int n1,n2,i;
printf("Enter the size of string :");
scanf("%d",&n1);
fflush(stdin);
char str1[n1];
printf("Enter the String :");
fgets(str1,(n1+1),stdin);
printf("Enter the size of string :");
scanf("%d",&n2);
fflush(stdin);
char str2[n2];
printf("Enter the String :");
fgets(str2,(n2+1),stdin);
for(i=0;str1[i]!='\0'||str2[i]!='\0';i++){
    if(str1[i]=='\0'){
        printf("String Second are greater :%s",str2);
    }
    else{
        if(str1[i]=='\0'){
            printf("String First are greater :%s",str1);
        }
        else{
            if(str1[i]=='\0'&&str2[i]=='\0'){
                printf("Both String are Equal ");
            }
        }
    }
}
}
```

## **Q10. Write a program to check the string is palindrome or not.**

**:-Code :-**

//Write a program to check the string is palindrome or not.

```
#include<stdio.h>
void main(){
    int n,i,j,check=0;
    printf("Enter the size of string :");
    scanf("%d",&n);
    fflush(stdin);
    char str1[n];
    printf("Enter the String :");
    fgets(str1,(n+1),stdin);

    for(i=0,j=n-1;str1[i]!='\0';i++,j--) {
        if(str1[i]!=str1[j]){
            printf("String are not palindrom ");
            check=1;
        }
    }
    if(check!=1){
        printf("String are palindrom ");
    }
}
```