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

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

main()
{
	char s[20], n;
	int found=0;

	printf("Enter the string: ");
	scanf("%s",s);

	printf("Enter the element to search: ");
	scanf(" %c",&n);

	for(int i=0;i<strlen(s);i++)
	{
		if(s[i]==n)
		{
			found=1;
			printf("Found",n,i);
			break;
		}
	}
	if(!found)
	{
		printf("Element not found");
	}
	return 0;
}
```

2. WAP Replace all Occurrences of ‘a’ with $ in a String

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

main()
{
	char s[20];

	printf("Enter the string ");
	scanf("%s",s);

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

```
            if(s[i]=='a' || s[i]=='A')
            {
                  s[i]='$';
            }
      }
      printf("%s\n",s);
      return 0;
}
```

4. WAP to Form a New String where the First Character and the Last Character have been Exchanged
5. WAP to Count the Number of Vowels in a String

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

main()
{
      char s[20];
      int count=0;

      printf("Enter the string: ");
      scanf("%s",s);

      for(int i=0;i<strlen(s);i++)
      {
            if(s[i]=='a'||s[i]=='e'||s[i]=='i'||s[i]=='o'||s[i]=='u')
            {
                  count++;
            }
      }
      printf("%d vowels are found",count);
      return 0;
}
```

6. WAP to Take in a String and Replace Every Blank Space with special symbol.

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

main()
{
      char s[30]="ABCS GHJK KLJL";
      char c='^';

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

```
                if(s[i]==' ')
                {
                        s[i]=c;
                }
        }
        printf("Modified string is: %s",s);
}
```

7. WAP to Remove the Characters of Odd Index Values in a String
8. WAP to Calculate the Number of Words Present in a String

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

main()
{
        char s[20];
        int count=0;

        printf("Enter the string: ");
        scanf("%s",s);

        for(int i=0;s[i]!='\0';i++)
        {
                if(s[i]!=' ')
                {
                        count++;
                }
        }
        printf("Total word is: %d",count);
        return 0;
}
```

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

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

main()
{
        char s1[100], s2[100];
        int len1=0, len2=0;

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

        printf("Enter the string 2: ");
```

```
	scanf("%s",s2);

	while(s1[len1]!='\0')
	{
		len1++;
	}
	while(s2[len2]!='\0')
	{
		len2++;
	}
	if(len1>len2){
		printf("Larger string is: %s\n", s1);
	} else if(len2>len1){
		printf("Larger string is: %s\n", s2);
	} else {
		printf("Both are equal");
	}
	return 0;
}
```

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

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

int main()
{
	char s[20];
	int start=0, end, flag=1;

	printf("Enter the string: ");
	scanf("%s", s);

	end = strlen(s)-1;

	while(start<end)
	{
		if(s[start]!=s[end]){
			flag=0;
			break;
		}
		start++;
		end--;
	}
	if(flag==1)
		printf("is a Palindrome");
	else
```

```
                printf("is not a Palindrome");
        return 0;

}
```