PROGRAM 26:

7.19.2019 **STRING OPERATIONS**

OBJECTIVE:

Write a C++ program to perform the following string operations using pointers according to the user's choice:

- a. To count the number of vowels in a string
- c. To compare two strings
- d. To copy one sting into another
- e. Exit

SOURCE CODE:

```
cout<<"\t \t\t \b STRING OPERATIONS: "<<endl;</pre>
while(1)
{
cout<<"Choose from the following functions:\n1.To count the
number of vowels in a string\n2.To compare two strings\n3.To
copy one sting into another\n4. Exit"<<endl;
cout<<"\nENTER YOUR CHOICE: ";</pre>
cin>>ch;
switch(ch)
{ case 1:cout<<"Enter the string: ";;
             gets(st);
    ptr=st;
    while(*ptr!='\setminus0')
{if(*ptr=='a'||*ptr=='e'||*ptr=='i'||*ptr=='o'||*ptr=='u'||*ptr=='A'||
*ptr=='E'||*ptr=='I'||*ptr=='O'||*ptr=='U')
             C++;
    ptr++;
    cout<<"\nThe number of vowels are:"<<c<endl;</pre>
    ----"<<endl;
```

```
break;
case 2:
    cout<<"Enter string 1: ";</pre>
    gets(s1);
    cout<<"\nEnter string 2: ";</pre>
    gets(s2);
    ptr1=s1;
    ptr2=s2;
    while(*ptr1!='\0'\&\&*ptr2!='\0')
    {if(*ptr1!=*ptr2)
    {flag=1;
    }
    ptr1++;
    ptr2++;
    }
    if(flag==0)
    cout<<"The strings are identical."<<endl;</pre>
    else
    cout<<"The strings are not identical"<<endl;</pre>
```

```
cout<<"-_---------
_-_-_-:"<<endl;break;
case 3: cout<<"\nEnter string s1: ";</pre>
   gets(s3);
   ptr3=s3;
   ptr4=s4;
   while(*ptr3!='\setminus 0')
   {*ptr4=*ptr3;
   ptr3++;
   ptr4++;
   cout<<"\nThe string s1 is copied into string s2.";</pre>
   cout<<"\nThe copied string (s2) is:"<<s4<<endl;</pre>
   cout<<"-_-------
_-_-_-"<<endl;break;
default:cout<<"Enter valid option!!! ";</pre>
getch();}
```

SAMPLE OUTPUT:

