

PROGRAM: 9

23.06.2019

STRING MANIPULATOR

Objective:

Define the string class having following member functions with its constructor and destructor functions.

- a. upit() : That converts the string to uppercase
- b. loit() : That converts the string into lowercase
- c. Length() : Calculates the length of the string
- d. Scopy() : To copy the string
- e. sconcat() : To concatenate two strings

SOURCE CODE:

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

class string
{char str[15];
public:
string()
{strcpy(str,"default string");
cout<<"constructor evoked";}

void getstr()
{cout<<"\nEnter string: ";
gets(str);
```

```

}
void upit();
void loit();
void Length();
void Scopy();
void Sconcat();
~string();
};

void string:: upit()
{for(int i=0;str[i]!='\0';i++)
{if(str[i]>='a'&&str[i]<='z')
str[i]=str[i]-32;
}
cout<<"\nTHE ENTERED STRING IN  UPPERCASE IS: ";
puts(str);
};

void string:: loit()
{for(int i=0;str[i]!='\0';i++)
{if(str[i]>='A'&&str[i]<='Z')
str[i]=str[i]+32;
}
cout<<"\nTHE ENTERED STRING IN  LOWERCASE IS: ";
puts(str);
};

void string:: Length()

```

```

{int len=0;
for(int i=0;str[i]!='\0';i++)
len++;
cout<<"\nTHE ENTERED STRING LENGTH IS: "<<len<<endl;
};

void string::Scopy()
{char copy[15];
for(int i=0;str[i]!='\0';i++)
{copy[i]=str[i];}
cout<<"THE COPIED STRING IS: "<<endl;
puts(copy);
};

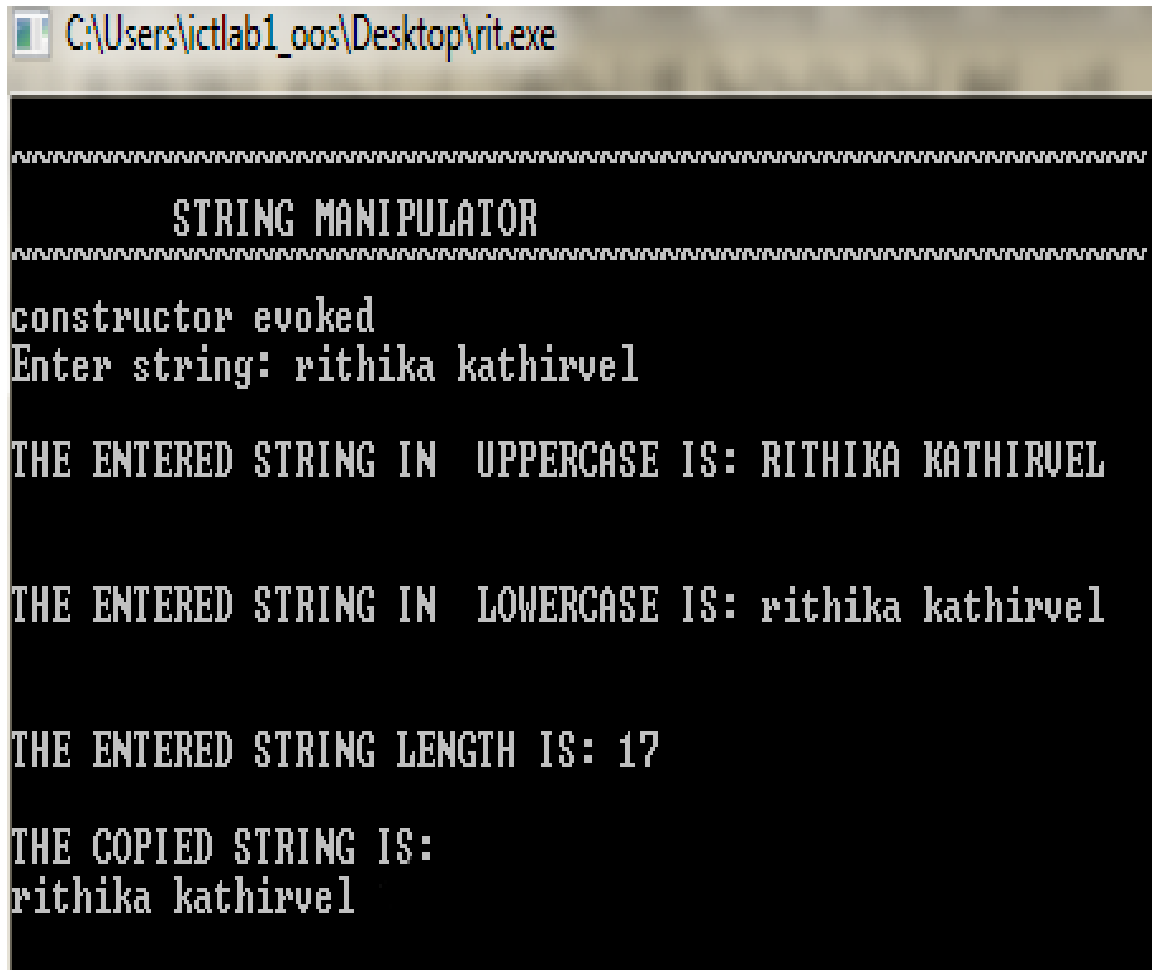
void string::Sconcat()
{char cat[15];int k=0;int len;
for(int i=0;str[i]!='\0';i++)
len++;
for(int i=0;i<len;i++)
{cat[k]=str[i];}
cout<<"\nTHE CONCANATED STRING IS: ";
puts(str);
};

void main()
{
cout<<"\n~~~~~
~~~~~";
}

```

```
cout<<"\n\tSTRING MANIPULATOR";
cout<<"\n~~~~~\n~~~~~";
cout<<endl;
string s;
s.getstr();
s.upit(); //That converts the string to uppercase
cout<<endl;
s.loit(); //That converts the string into lowercase
cout<<endl;
s.Length(); //Calculates the length of the string
cout<<endl;
s.Scopy(); //To copy the string
cout<<endl;
s.Sconcat(); //To concatenate two strings
getch();
}
```

Sample output:



```
C:\Users\ictlab1_oos\Desktop>rit.exe

////////////////////////////////////
                        STRING MANIPULATOR
////////////////////////////////////

constructor evoked
Enter string: rithika kathirvel

THE ENTERED STRING IN  UPPERCASE IS: RITHIKA KATHIRUEL

THE ENTERED STRING IN  LOWERCASE IS: rithika kathirvel

THE ENTERED STRING LENGTH IS: 17

THE COPIED STRING IS:
rithika kathirvel
```