**/ \* 13. Write a menu driven program to perform following operations on strings:**

**a) Show address of each character in string**

**b) Concatenate two strings without using strcat function.**

**c) Concatenate two strings using strcat function.**

**d) Compare two strings**

**e) Calculate length of the string (use pointers)**

**f ) convert all lowercase characters to uppercase**

**g)convert all uppercase characters to lower case**

**h) Calculate number of vowels**

**i) Reverse the string \*/**

#include<iostream>

#include<string>

#include<stdio>

int main()

{

char ch;

cout<<"a) Show address of each character in string\n";

cout<<"b) Concatenate two strings using strcat func\n";

cout<<"c) Concatenate two strings without using strcat func\n";

cout<<"d) Compare two strings\n";

cout<<"e) Calculate length of the string(use pointers)\n";

cout<<”f) convert all lowercase characters to upper case”\n;

cout<<”g)convert all uppercase characters to lower case”\n”;

cout<<"h) Calculate number of vowels\n";

cout<<"i) Reverse the string\n";

cout<<"\n\n Enter Choice(a-g)\n";

cin>>ch;

cout<<endl;

switch(ch)

{ case 'a': int n, i;

cout<<"Enter size\n";

cin>>n;

cout<<"Enter array\n";

char \*A=new char[n];

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

{ cin>>\*(A+i);

}

cout<<"Addresses of entered elements";

cout<<endl;

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

{ cout<<\*(A+i)<<" : "<<(A+i);

cout<<endl;

}

cout<<endl;

break;

case 'b': char str1[25], str2[25], str3[50];

int k, x1;

cout<<"Enter 1st string\n";

gets(str1);

cout<<"Enter 2nd string\n";

gets(str2);

for(i=0;str1[i]!='\0';++i)

str3[i]=str1[i];

for(k=0;str2[k]!='\0';k++)

str3[i+k]=str2[k];

str3[i+k]='\0';

x1=strlen(str3);

cout<<"\nThe concatenated string is :\n";

cout.write(str3,x1);

cout<<endl;

break;

case 'c': char st1[50], st2[25];

int l;

cout<<"Enter 1st string\n";

gets(st1);

cout<<"Enter 2nd string\n";

gets(st2);

strcat(st1,st2);

l=strlen(st1);

cout<<"\nConcatenated string :\n";

cout.write(st1,l);

cout<<endl;

break;

case 'd': int y;

cout<<"\nEnter 1st string\n";

gets(st1);

cout<<"Enter 2nd string\n";

gets(st2);

y=strcmp(st2,st1);

if(y<0)

cout<<"st2 is less than st1\n";

else if(y>0)

cout<<"st1 is less than st2\n";

else cout<<"st1 equals st2\n";

cout<<endl;

break;

case 'e': char str[20];

cout<<"Enter string\n";

gets(str);

char \*p;

p=str;

int count =0;

while(\*p!='\0')

{ count++;

p++;

}

cout<<"\nLength :\n";

cout<<count;

cout<<endl;

break;

case ‘f’ : char str[10];

cout<<"enter string :- ";

gets(str);

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

{

if(islower(str[i]))

str[i]=toupper(str[i]);

}

cout<<"\nNew string is :- ";

puts(str);

break;

case ‘g’: char str[10];

cout<<"enter string :- ";

gets(str);

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

{

if(isupper(str[i]))

str[i]=tolower(str[i]);

}

cout<<"\nNew string is :- ";

puts(str);

break;

case 'h': char line[80];

int count1;

count1=0;

cout<<"Enter line\n";

gets(line);

for(int f=0; line[f]!='0'; f++)

{

switch(line[f])

{ case 'a':

case 'e':

case 'i':

case 'o':

case 'u':

case 'A':

case 'E':

case 'I':

case 'O':

case 'U': count1++;

}

}

cout<<"\nTotal no. of vowels is :\n";

cout<<count1;

break;

case 'i':

int j, temp;

cout<<"Enter string\n";

gets(str);

n=strlen(str);

i=0;

j=n-1;

while(i<(n/2)||j<(n/2))

{

temp=str[i];

str[i]=str[j];

str[j]=temp;

i++;

j--;

}

cout<<"\nReverse Order\n";

for(k=0;k<n;k++)

cout<<str[k];

cout<<endl;

break;

default: cout<<"WRONG CHOICE!!!!!!!"<<endl;

break;

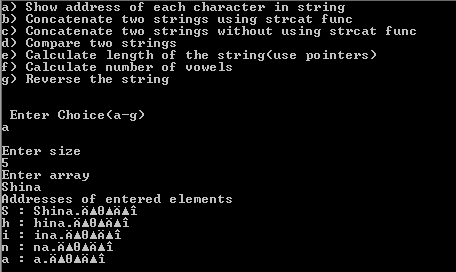
}

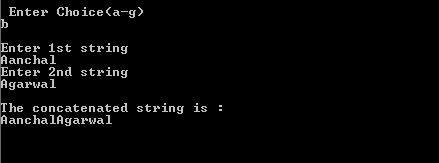
system(“pause”);

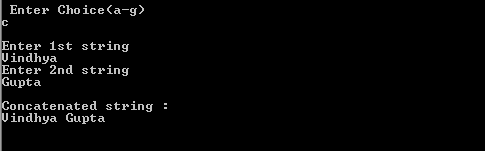
return 0;

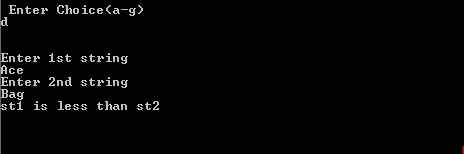
}

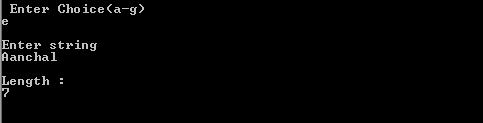
/\* OUTPUT :-

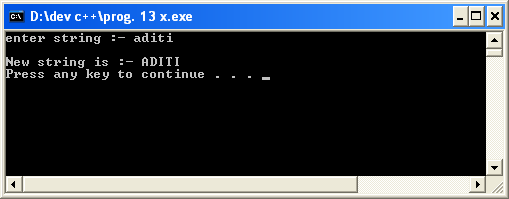


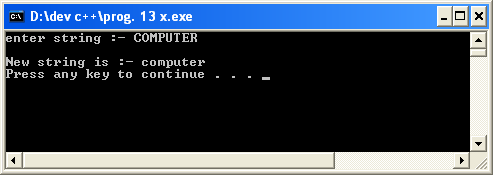


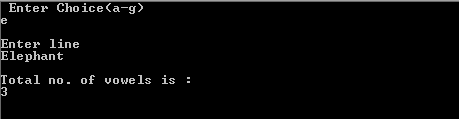


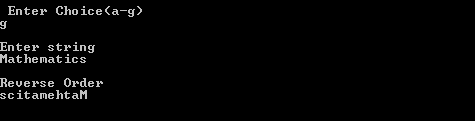










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