***DATA STUCTURES AND ALGORITHM***

***LAB-3***

Object: Code a menu based program of String Processing which have the following options:

1. Upper case to lower case
2. Lower case to upper case
3. Concatenation
4. Length of string
5. Reverse two strings
6. Compare two strings
7. Copy of two strings

#include<iostream>

#include<conio.h>

#include<string>

using namespace std;

void main()

{

start:

int choice, a=0;

cout<<"STRING PROCESSING";

cout<<"\n1. Upper Case to Lower Case";

cout<<"\n2. Lower Case to Upper Case";

cout<<"\n3. Concatenation";

cout<<"\n4. Length";

cout<<"\n5. Reverse";

cout<<"\n6. Compare";

cout<<"\n7. Copy";

cout<<"\nEnter your choice: ";

cin>>choice;

system("cls");

switch(choice)

{

case 1:

char u[50];

cout<<"Write Anything in Lower Case (Small Alphabets): ";

cin.ignore();

cin.getline(u,50);

cout<<"Upper case is: "<<strupr(u)<<endl<<endl;

break;

case 2:

char l[50];

cout<<"Write Anything in Upper Case (Capital Alphabets): ";

cin.ignore();

cin.getline(l,50);

cout<<"Lower case is: "<<strlwr(l)<<endl<<endl;

break;

case 3:

char con[10],cat[10];

cout<<"Enter First Sentence: ";

cin.ignore();

cin>>con;

cout<<"Enter Second Sentence: ";

cin>>cat;

cout<<"Concatenation is: "<<con<<cat<<endl<<endl;

break;

case 4:

char n[50];

char \*p;

cout<<"Write a Sentence: ";

cin.ignore();

cin.getline(n,50);

p=n;

cout<<"Length of Sentence: "<<strlen(p)<<endl<<endl;

break;

case 5:

char reverse[50];

cout<<"Write a Sentetnce: ";

cin.ignore();

cin.getline(reverse,50);

cout<<"Reverse of the Sentence is: "<<strrev(reverse)<<endl<<endl;

break;

case 6:

char compare[20],letter[20];

cout<<"Enter First Word: ";

cin.ignore();

cin.getline(compare,20);

cout<<"Enter Second Word: ";

cin.getline(letter,20);

for(int i=0; i<20;i++)

{

if(compare[i]!=letter[i])

{

a=1;

}

}

if(a!=1)

{

cout<<"The Word is Comparable"<<endl<<endl;

}

else

{

cout<<"The Word is Not Comparable"<<endl<<endl;

}

break;

case 7:

char copy[20],let[20];

cout<<"write a Sentence: ";

cin.ignore();

cin.getline(copy,20);

for(int i=0;i<20;i++)

{

let[i]=copy[i];

}

cout<<"Answer is: "<<let<<endl<<endl;

break;

default:

cout<<"Invalid Input"<<endl<<endl;

break;

}

goto start;

getch();

}

Output:









