

TSDL ASSIGNMENTS

Assignment No.2

WAP to add modify delete and view following information(also store data in file and fetch next time) vehicle information ,name,type,company name,capacity in cc, milage (CPP + File Handling)

```
#include <iostream>
#include <conio.h>
#include <fstream>
using namespace std;
class Vehicle
{
public:
char name[10];
unsigned int capacity, milage, type;
}S[4];
int main()
{
int i;
ofstream file;
file.open ("sample.txt");
for (i = 0; i < 1; i++)
{
cout << "\nEnter your Vehicle's name : ";
cin >> S[i].name;
cout << "Enter your Vehicle's type (2 , 4) : ";
cin >> S[i].type;
cout << "Enter your Vehicle's capacity in cc : ";
cin >> S[i].capacity;
cout << "Enter your Vehicle's milage : ";
cin >> S[i].milage;
}
for (i = 0; i < 1; i++)
{
file << "\n\nYour Vehicle's name : " << S[i].name;
file << "\nYour Vehicle's type : " << S[i].type;
file << "\nYour Vehicle's capacity in cc : " << S[i].capacity;
file << "\nYour Vehicle's milage : " << S[i].milage;
}
file.close();
```

```
return 0;
}
```

Assignment No.3 -

WAP to Display Shopping Information in the which the contents are
Person_Name, Cloth_Type,
Cloth_Size, Cloth _Color, using Class and Object Concept of C++ Programmin

```
#include <iostream>

#include <conio>

#include <string.h>

int c[5]={0,0,0,0,0};

int d[5]={0,0,0,0,0};

class Cloth
{
    private:
        char name[20];
        char size[5];
        char type[15];
        char color[10];
        int cost;

    public:
        void setdata(char *n,char *s,char *t,char *c,int co)
        {
            strcpy(name,n);
            strcpy(size,s);
            strcpy(type,t);
            strcpy(color,c);
            cost=co;
        }
        char *getName()
```

```
{
    return name;
}
char *getSize()
{
    return size;
}
char *getType()
{
    return type;
}
char *getColor()
{
    return color;
}
int getCost()
{
    return cost;
}
};
```

```
void sizeof(char *si)
{
    if(strcmp(si,"S")==0)
    {
        c[0]++;
    }
    else if(strcmp(si,"M")==0)
    {
        c[1]++;
    }
}
```

```
    }  
    else if(strcmp(si,"L")==0)  
    {  
        c[2]++;  
    }  
    else if(strcmp(si,"XL")==0)  
    {  
        c[3]++;  
    }  
    else if(strcmp(si,"XXL")==0)  
    {  
        c[4]++;  
    }  
}
```

```
void colorf(char *ci)  
{  
    if(strcmp(ci,"Red")==0)  
    {  
        d[0]++;  
    }  
    else if(strcmp(ci,"Black")==0)  
    {  
        d[1]++;  
    }  
    else if(strcmp(ci,"Blue")==0)  
    {  
        d[2]++;  
    }  
    else if(strcmp(ci,"White")==0)
```

```

    {
        d[3]++;
    }
    else if(strcmp(ci,"Green")==0)
    {
        d[4]++;
    }
}

void main()
{
    clrscr();
    Cloth obj[5];
    char name[20],size[5],type[15],color[10];
    int cost,i;
    for(i=0;i<2;i++)
    {
        cout<<"\nEnter your name: ";
        cin>>name;
        cout<<"\nEnter size of cloth: ";
        cin>>size;
        sizeof(size);
        cout<<"\nEnter type of cloth: ";
        cin>>type;
        cout<<"\nEnter color of cloth: ";
        cin>>color;
        colorf(color);
        cout<<"\nEnter cost of cloth: ";
        cin>>cost;
        obj[i].setdata(name,size,type,color,cost);
    }
}

```

```

    }

    for(i=0;i<2;i++)
    {
        cout<<"\nName : "<<obj[i].getName();
        cout<<"\nSize : "<<obj[i].getSize();
        cout<<"\nType : "<<obj[i].getType();
        cout<<"\nColor : "<<obj[i].getColor();
        cout<<"\nCost : "<<obj[i].getCost();
    }

    cout<<"\nSale of size S: "<<(c[0]);
    cout<<"\nSale of size M: "<<(c[1]);
    cout<<"\nSale of size L: "<<(c[2]);
    cout<<"\nSale of size XL: "<<(c[3]);
    cout<<"\nSale of size XXL: "<<(c[4]);

    cout<<"\nSale of color Red: "<<(d[0]);
    cout<<"\nSale of color Black: "<<(d[1]);
    cout<<"\nSale of color Blue: "<<(d[2]);
    cout<<"\nSale of color White: "<<(d[3]);
    cout<<"\nSale of color Green: "<<(d[4]);

    getch();
}

```

Assignment No.4

WAP to add modify delete and view following information(also store data in file and fetch next time)

Computer Details

Type:Desktop/Laptop,processor,RAM, harddisk ,usb port count,hdmi port count
battery backup time

```
#include <iostream>
```

```

#include <conio.h>
#include <fstream>
using namespace std;
class Info
{
public:
char comp_type[10], processor_type[10];
unsigned int ram, hard_disk, USB_count, HDMI_count, Battery_time;
}S[4];
int main()
{
int i;
ofstream file;
file.open ("codebind.txt");
for (i = 0; i < 4; i++)
{
cout << "Enter your computer type : ";
cin >> S[i].comp_type;
cout << "Enter your processor type : ";
cin >> S[i].processor_type;
cout << "Enter your RAM : ";
cin >> S[i].ram;
cout << "Enter your Hard disk : ";
cin >> S[i].hard_disk;
cout << "Enter your USB port count : ";
cin >> S[i].USB_count;
cout << "Enter your HDMI port count : ";
cin >> S[i].HDMI_count;
cout << "Enter your Battery life time : ";
cin >> S[i].Battery_time;
}
}

```

```

}
for (i = 0; i < 1; i++)
{
file << "\n\nEnter your computer type : " << S[i].comp_type;
file << "\n\nEnter your processor type : " << S[i].processor_type;
file << "\n\nEnter your RAM : " << S[i].ram;
file << "\n\nEnter your Hard disk : " << S[i].hard_disk;
file << "\n\nEnter your USB port count : " << S[i].USB_count;
file << "\n\nEnter your HDMI port count : " << S[i].HDMI_count;
file << "\n\nEnter your Battery life time : " << S[i].Battery_time;
}
file.close();
return 0;
}

```

Assignment No. 5

WAP to Insert the Information from the User and Display the Student Information in the Library

using Multiple/ Multi-Level Inheritance Concept of C++ Programming. Book Information:

Book_Name Author_Name Publication Number of Copies Library Information: Name

Qualification Experience Students Information: Student_Name Department Class Division

Book

Issue Information: Book_issue Book_details Student Information

```
#include<iostream>
```

```
#include<conio.h>
```

```
#include<fstream>
```

```
using namespace std;
```

```
class librarian_info
```

```
{
```



```

public:
char name[20];
char qualification[10];
unsigned int experience;
};

class student_info
{
public:
char student_name[20];
char department[30];
char std[10];
char division;
};

class book_info
{
public:
char book_name[20];
char author[20];
char publication[20];
unsigned int copies;
}B[10];

class student_book_info : public student_info, public book_info
{
public:
char date_taken[15], date_givenBack[15];
char damage[30];
student_book_info()
{
char damage[30] = {"N0"};
}
};class library_info : public student_book_info, public librarian_info

```

```

{ }AL[4];

int main()

{

    int i,j;

    ofstream file;

    file.open ("ALL_INFO.txt");

    for (i = 0; i < 1; i++)

    {

        cout << "\n-----Librarian Info-----" << endl;

        cout << "Enter name of librarian : ";

        cin >> AL[i].name;

        cout << "Enter qualification of librarian : ";

        cin >> AL[i].qualification;

        cout << "Enter experience of librarian : ";

        cin >> AL[i].experience;

        cout << "\n-----Student Info-----" << endl;

        cout << "Enter name of student : ";

        cin >> AL[i].student_name;

        cout << "Enter department of student : ";

        cin >> AL[i].department;

        cout << "Enter class of student : ";

        cin >> AL[i].std;

        cout << "Enter division of student : ";

        cin >> AL[i].division;

        for (j = 0; j < 2; j++)

        {

            cout << "\n-----Book Info " << j + 1 << "-----" << endl;

            cout << "Enter name of book : ";

            cin >> B[j].book_name;

            cout << "Enter author of book : ";

            cin >> B[j].author;

```

```

cout << "Enter publication of book : ";
cin >> B[j].publication;
cout << "Enter numner of copies : ";
cin >> B[j].copies;
}
cout << "\n-----Student Book Info-----" << endl;
cout << "Enter date of book take : ";
cin >> AL[i].date_taken;
cout << "Enter date of book given back : ";
cin >> AL[i].date_givenBack;
cout << "Enter YES for damage book or NO : ";
cin >> AL[i].damage;
}
for (i = 0; i < 1; i++){
file << "\n\n-----Librarian Info-----" << endl;
file << "\nName of librarian : " << AL[i].name;
file << "\nQualification of librarian : " << AL[i].qualification;
file << "\nExperience of librarian : " << AL[i].experience;
file << "\n-----Student Info-----" << endl;
file << "\nName of student : " << AL[i].student_name;
file << "\nDepartment of student : " << AL[i].department;
file << "\nClass of student : " << AL[i].std;
file << "\nDivision of student : " << AL[i].division;
for (j = 0; j < 2; j++)
{
file << "\n-----Book Info-----" << endl;
file << "\nName of book : " << B[j].book_name;
file << "\nAuthor of book : " << B[j].author;
file << "\nPublication of book : " << B[j].publication;
file << "\nNumner of copies : " << B[j].copies;
}
}

```

```

file << "\n\n-----Student Book Info-----" << endl;
file << "\nDate of book take : " << AL[i].date_taken;
file << "\nDate of book given back : " << AL[i].date_givenBack;;
file << "\nDamaged book : " << AL[i].damage;
}
file.close();
}

```

Assignment No. 6

List of 10 Programs for Practice.

1. C++ Program To Find Area And Circumference Of Circle

```

#include <iostream>

#define PI 3.14159

using namespace std;

void main()
{
    float radius, area, circum;

    cout << "\n\n Find the area and circumference of any circle :\n";
    cout << "-----\n";

    cout << "Input the radius(1/2 of diameter) of a circle : ";
    cin >> radius;

    circum = 2*PI*radius;
    area = PI*(radius*radius);

    cout << "The area of the circle is : " << area << endl;
    cout << "The circumference of the circle is : " << circum << endl;

    cout << endl;

    getch();
}

```

2. C++ Program To Print Ascii Value Of Character

```
// CPP program to print
// ASCII Value of Character
#include <iostream>
using namespace std;
int main()
{
    char c;
    cout<<"Enter the character whose ASCII value want to know"<<endl;
    cin>>c;
    cout << "The ASCII value of " << c << " is " << int(c);
    return 0;
}
```

3. C++ Program To Find Area Of Triangle

```
#include<iostream>
#include<conio.h>
#include<math.h>
using namespace std;
class Triangle
{
private:
    float a,b,c;
public:
    void input();//HERONS FORMULA
    {
        cout<<"Enter three sides of a triangle:-";
        cin>>a>>b>>c;
    }
    void Area()
    {
        float s=(a+b+c)/2;
        float area=sqrt(s*(s-a)*(s-b)*(s-c));
        cout<<"\nArea of Triangle ="<<area;
    }
};
void main()
{
    Triangle t1;
    t1.input();
    t1.Area();
    getch();
}
```

4. C++ Program to Convert a person's name in Abbreviated

```

#include<iostream.h>

using namespace std;

void main()
{
    char fname[20], mname[20], lname[20];

    cout<<"Enter The First Name Middle Name & Last Name \n";

    cin>>fname >>mname >>lname;

    if(fname[0]!=" "&& mname[0]!=" ")
    {
        cout<<"Abbreviated Name: ";

        cout<<fname[0]<<". "<<mname[0]<<". "<<lname<<endl;

    }

    getch();
}

```

5. C++ Program For Calculate A Simple Interest

```

/*#include <iostream>

using namespace std;

float si(int p, int n, int r=5)
{
    return (p*n*r)/100;
}

int main()
{
    int p, n, r;

    cout<<"Enter principal amount: ";

    cin>>p;

    cout<<"Enter duration (in years): ";

    cin>>n;

```

```

        cout<<"Enter rate of interest: ";

        cin>>r;

        cout<<"Simple interest = "<<si(p, n, r);

        cout<<"Simple interest = "<<si(p, n);

        return 0;

    }*/

#include<iostream>

using namespace std;

int main()
{
    float p, r, t, si;

    char ch;

    cout<<"Enter Principle Amount: ";

    cin>>p;

    cout<<"Enter Rate of Interest: ";

    cin>>r;

    cout<<"Time Period in Year or Month ? (y for year, m for month): ";

    cin>>ch;

    if(ch=='y')
    {
        cout<<"Enter Time Period (in Years): ";

        cin>>t;

        si = (p*r*t)/100;

    }

    else
    {

        cout<<"Enter Time Period (in Months): ";

        cin>>t;

        t = t/12;
    }
}

```

```

    si = (p*r*t)/100;
}

cout<<"\nSimple Interest Amount: "<<si;

cout<<endl;

return 0;
}

```

6. C++ Program To Find Greater No. Among given Three Number

```

#include <iostream>
using namespace std;
int main()
{
    float n1, n2, n3;
    cout << "Enter three numbers: ";
    cin >> n1 >> n2 >> n3;
    if(n1 >= n2 && n1 >= n3)
    {
        cout << "Largest number: " << n1;
    }
    if(n2 >= n1 && n2 >= n3)
    {
        cout << "Largest number: " << n2;
    }
    if(n3 >= n1 && n3 >= n2) {
        cout << "Largest number: " << n3;
    }
    return 0;
}

```

7. C++ Program To Find The Gross Salary Of An Employee

```

#include <iostream>
using namespace std;
int main()
{
    double Basic_Salary, DA, HRA, Gross_Salary;
    cout << "Enter Basic Salary : ";
    cin >> Basic_Salary;
    DA = (Basic_Salary * 40) / 100;
    HRA = (Basic_Salary * 20) / 100;
    Gross_Salary = Basic_Salary + DA + HRA;
    cout << "\n\nDearness Allowance 40 % of Basic Salary : " << DA;
    cout << "\nHouse Rent 20 % of Basic Salary : " << HRA;
    cout << "\nGross Salary : " << Gross_Salary;
}

```



```
return 0;
}
```

8. C++ Program For Calculate Percentage Of 5 Subjects

```
#include<iostream>
using namespace std;
int main()
{
int sub,marks,n,i,sum=0,tmp=0,arr[10],Percentage;
cout<<"\nEnter number of subject : \n";
cin>>n;
tmp=n*100;
cout<<"\nEnter The Marks: \n";
for(i=0;i<n;i++)
{
cin>>arr[i];
}
for(i=0;i<n;i++)
{
sum=sum+arr[i];
}
Percentage = ( sum * 100 ) / tmp;
cout<<"\nPercentage Of Student : \n"<< Percentage<<endl;
return (0);
}
```

9. C++ Program For Converting Temperature Celsius Into Fahrenheit

```
#include<iostream>
using namespace std;
int main()
{
float celsius, fahrenheit;
cout<<"Enter the Temperature in Celsius: ";
cin>>celsius;
fahrenheit = (celsius*1.8)+32;
cout<<"\nEquivalent Temperature in Fahrenheit: "<<fahrenheit;
cout<<endl;
return 0;
}
```

10. C++ Program To Display Size Of Different Data Type

```
#include <iostream>
```

```

using namespace std;
int main()
{
cout << "Size of char: " << sizeof(char) << " byte" << endl;
cout << "Size of int: " << sizeof(int) << " bytes" << endl;
cout << "Size of float: " << sizeof(float) << " bytes" << endl;
cout << "Size of double: " << sizeof(double) << " bytes" << endl;
return 0;
}

```

11. C++ Program To Check Number Is Positive Or Negative

```

#include <iostream>
using namespace std;
int main()
{
signed long num1 = 0;
cout << "\n\n Check whether a number is positive, negative or zero :\n";
cout << "-----\n";
cout << " Input a number : ";
cin >> num1;
if(num1 > 0)
{
cout << " The entered number is positive.\n\n";
}
else if(num1 < 0)
{
cout << " The entered number is negative.\n\n";
}
else
{
std::cout << " The number is zero.\n\n";
}
return 0;
}

```

12. C++ Program To Find Character Is Vowel Or Not

```

#include<iostream>
using namespace std;
int main()
{
char ch;

```

```

cout<<"Enter an Alphabet: ";
cin>>ch;
if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u')
cout<<"\nIt is a Vowel";
else if(ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')
cout<<"\nIt is a Vowel";
else
cout<<"\nIt is a Consonant";
cout<<endl;
return 0;
}

```

13. C++ Program To Calculate Factorial Of A Given Number

```

#include <iostream>
using namespace std;
int main() {
int n;
long double factorial = 1.0;
cout << "Enter a positive integer: ";

if (n < 0)
cout << "Error! Factorial of a negative number doesn't exist.";
else {
for(int i = 1; i <= n; ++i) {
factorial *= i;
}
cout << "Factorial of " << n << " = " << factorial;
}
return 0;
}

```

14. C++ Program To Read Integer (N) And Print First Three Powers (N^1 , N^2 , N^3)

```

#include<bits/stdc++.h>
using namespace std;
int main()
{
int num;
cout<<"\nEnter The Number .\n";
cin>>num;
cout<<"\nOutput is \n";
cout<<num<<" , "<<num*num<<" , "<<num*num*num<<endl;
return 0;
}

```

```

}

/*#include<bits/stdc++.h>
using namespace std;
int main()
{
    int num,a,b,c;
    cout<<"\nEnter The Number .\n";
    cin>>num;
    a=pow(num,1);
    b=pow(num,2);
    c=pow(num,3);
    cout<<"\nOutpout is \n";
    cout<<a<<" , "<<b<<" , "<<c<<endl;
    return 0;
}*/

```

15. C++ Program To Swap Two Number Without Using Third Variable

```

#include <iostream>
using namespace std;
int main()
{
    int a = 5, b = 10, temp;
    cout << "Before swapping." << endl;
    cout << "a = " << a << ", b = " << b << endl;
    temp = a;
    a = b;
    b = temp;
    cout << "\nAfter swapping." << endl;
    cout << "a = " << a << ", b = " << b << endl;
    return 0;
}

```

16. C++ Program To Find The Address Of Variable

```

#include <iostream>
using namespace std;
int main ()
{
    int first,sec;
    cout<<"Enter The Value Of First and Second Variable \n\n";
    cin>>first>>sec;
    cout << "Address Of First Variable :\n\n";
}

```

```
cout << &first << "\n";

cout << "\nAddress Of Second Variable :\n\n";
cout << &sec << endl;
return 0;
}
```

Assignment No. 7 Write a C++ program to calculate the area of triangle, rectangle and circle using function overloading. The program should be menu driven.

```
#include <iostream>
```

```
using namespace std;
```

```
int area (int a, int b)
```

```
{
    int area = a*b;
    return area;
}
```

```
float area (float a, float b)
```

```
{
    float area = 0.5*a*b;
    return area;
}
```

```
float area (int r)
```

```
{
    float area = 3.14*r*r;
    return area;
}
```

```
int main()
```

```
{
    int ch;
    cout << "Enter : \n1. Rectangle \n2. Triangle \n3. Circle \n : ";
    cin >> ch;
    switch(ch)
    {
```

case 1:

```
int lenght, breath, a;  
cout << "Enter lenght and breath : ";  
cin >> lenght >> breath;  
a = area(lenght,breath);  
cout << "Area : " << a;  
break;
```

case 2:

```
float base, height, b;  
cout << "Enter base and height : ";  
cin >> base, height;  
b = area(base, height);  
cout << "Area : " << b;  
break;
```

case 3:

```
int radius;  
float c;  
cout << "Enter radius : ";  
cin >> radius;  
c = area(radius);  
cout << "Area : " << c;  
break;
```

default :

```
cout << "Wrong intput : ";  
break;
```

```
}
```

```
}
```

OUTPUT –

```
Enter :
1. Rectangle
2. Triangle
3. Circle
: 3
Enter radius : 6
Area : 113.04
...Program finished with exit code 0
Press ENTER to exit console.
```

Assignment No. 8 Write a C++ program to calculate the area of triangle, rectangle and circle using Constructor overloading. The program should be menu driven.

```
#include <iostream>
```

```
#include <math.h>
```

```
using namespace std;
```

```
class AreaShape
```

```
{
```

```
    float area;
```

```
public:
```

```
    AreaShape(float radius)
```

```
{
```

```
        area = 3.14 * radius * radius;
```

```
}
```

```
    AreaShape(int length, int breadth)
```

```
{
```

```
        area = length * breadth;
```

```
}
```

```
    AreaShape(float base, float height)
```

```
{
```

```
        area = 0.5 * (base * height);
```

```

    }

    void display()
    {
        cout << "Area:\t" << area << endl;
    }
};

int main()
{
    int ch;

    float radius, height, base;

    int length, breadth;

    do
    {
        cout << "1. Area of Circle" << endl;
        cout << "2. Area of Rectangle" << endl;
        cout << "3. Area of Triangle" << endl;
        cout << "4. Exit" << endl;
        cout << "Enter Your Choice:\t";
        cin >> ch;

        switch (ch)
        {
            case 1:
            {
                cout << "Enter Radius of the Circle:\t";
                cin >> radius;

                AreaShape area(radius);
                area.display();
            }

            break;

```


case 2:

```
{  
    cout << "Enter Length and Breadth of the Rectangle:\t";  
    cin >> length >> breadth;  
    AreaShape area(length, breadth);  
    area.display();  
}  
break;
```

case 3:

```
{  
    cout << "Enter Base and Height of the Triangle:\t";  
    cin >> base >> height;  
    AreaShape area(base, height);  
    area.display();  
}  
break;
```

case 4:

```
    exit(0);
```

default:

```
    cout << "Invalid Choice";
```

```
}
```

```
} while (ch != 4);
```

```
return 0;
```

```
}
```

OUTPUT –

```
input
1. Area of Circle
2. Area of Rectangle
3. Area of Triangle
4. Exit
Enter Your Choice: 2
Enter Length and Breadth of the Rectangle: 4 5
Area: 20
1. Area of Circle
2. Area of Rectangle
3. Area of Triangle
4. Exit
Enter Your Choice: 1
Enter Radius of the Circle: 45
Area: 6358.5
1. Area of Circle
2. Area of Rectangle
3. Area of Triangle
4. Exit
Enter Your Choice: 3
Enter Base and Height of the Triangle: 23 5
Area: 57.5
1. Area of Circle
2. Area of Rectangle
3. Area of Triangle
4. Exit
Enter Your Choice: 4
...Program finished with exit code 0
Press ENTER to exit console.
```

Assignment No. 9 WAP to Implement the Operator Overloading Concept of C++ Programming to take the Information from the User and Display Er. First_Name and Last_Name

```
#include <iostream>
```

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

```
using namespace std;
```

```
class AddString
```

```
{
```

```
public:
```

```
char s1[25], s2[25], s3[25];
```

```
AddString(char str1[], char str2[], char str3[])
```

```
{
```

```
strcpy(this->s1, str1);
```

```
strcpy(this->s2, str2);
```

```
strcpy(this->s3, str3);
```

```
}
```

```
void operator+()
```

```
{
```

```

        strcat(s3, s1);

        cout << "\nConcatenation: " << strcat(s3, s2);

    }

};

int main()
{
    char str1[20], str2[20], str3[] = "Er.";

    cout << "Enter your first and last name : ";
    cin >> str1 >> str2;

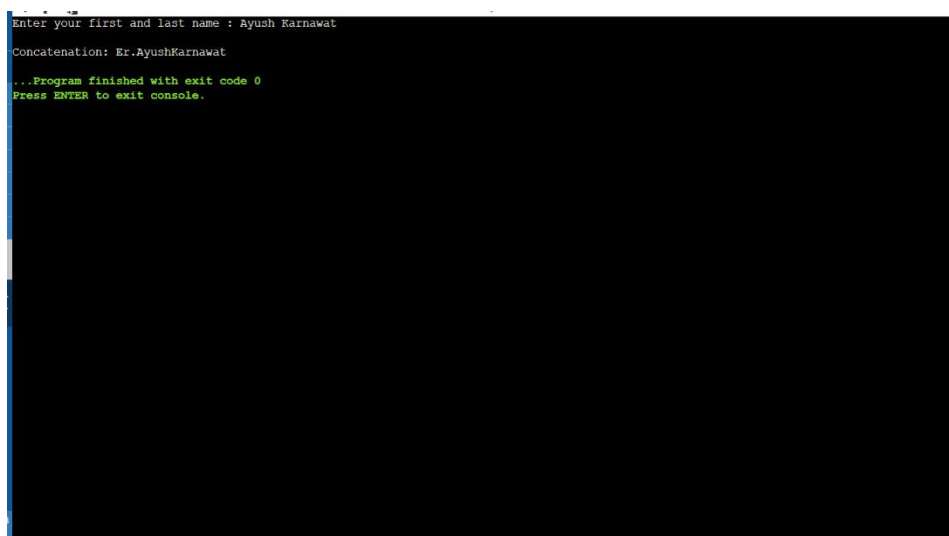
    AddString a1(str1, str2, str3);

    +a1;

    return 0;
}

```

OUTPUT –



```

... * ...
Enter your first and last name : Ayush Karnawat
Concatenation: Er.AyushKarnawat
...Program finished with exit code 0
Press ENTER to exit console.

```

Assignment No. 10

Write a Program to Demonstrate Friend Function and Friend Class.

A] Working of friend Function

```
#include <iostream>

using namespace std;

class Distance {
    private:
        int meter;

        // friend function
        friend int addFive(Distance);

    public:
        Distance() : meter(0) {}

};

// friend function definition
int addFive(Distance d) {

    //accessing private members from the friend function
    d.meter += 5;
    return d.meter;
}

int main() {
    Distance D;
    cout << "Distance: " << addFive(D);
    return 0;
}
```

B] Examples of Friend Class in C++

```
#include <iostream>

using namespace std;

class Exmp_A{
    private:
        int A_value;
    public:
        // Default Constructor
        Exmp_A(){
            A_value = 20;
        }
        friend class Exmp_B; // Friend Class
};

class Exmp_B{
    private:
        int B_value;
    public:
        // Accessing private members
        void display(Exmp_A& i) {
            cout<<"The private member's value accessed using friend class is: " << i.A_value<<endl;
        }
};

int main(){
    cout<<"Welcome to Simplilearn!"<<endl<<endl;

    Exmp_A A_value;
    Exmp_B B_value;
    B_value.display(A_value);

    return 0;
}
```

(OR USING GLOBAL FUNCTION THIS CAN BE DONE TOO)

