Practical-13

Q. Program to define a student class and create five objects and print them .

Code:-

```cpp
//Harsh Bamotra
//Program to define a student class

#include <iostream>
using namespace std;

//defining class student
class student
    {
        public:                                    //defining data members
            int Roll_no , Year , T_marks;
            string Name , Class;

            void display()                          //defining function to print data members
                {
                    cout << "Roll No::" << Roll_no << endl;
                    cout << "Name::" << Name << endl;
                    cout << "Class::" << Class << endl;
                    cout << "Year::" << Year << endl;
                    cout << "Total marks::" << T_marks << endl;
                }
    };

int main()
    {
        student arr[5];              //defining object
        for(int i=0 ; i<5 ; i++)          //loop to initailize data members
                {
                    cout << "***** Enter the details of the " << i+1 <<" student *****" << endl;
                    cout << "Enter your roll no::";
                    cin >> arr[i].Roll_no;
                    cout << "Enter your name::";
                    cin >> arr[i].Name;
                    cout << "Enter you class::";                  //initializing the data members
                    cin >> arr[i].Class;                         //by taking input form the user
                    cout << "Enter the year::";
                    cin >> arr[i].Year;
                    cout << "Enter your total marks::";
                    cin >> arr[i].T_marks;
                    cout << endl;
                }
```
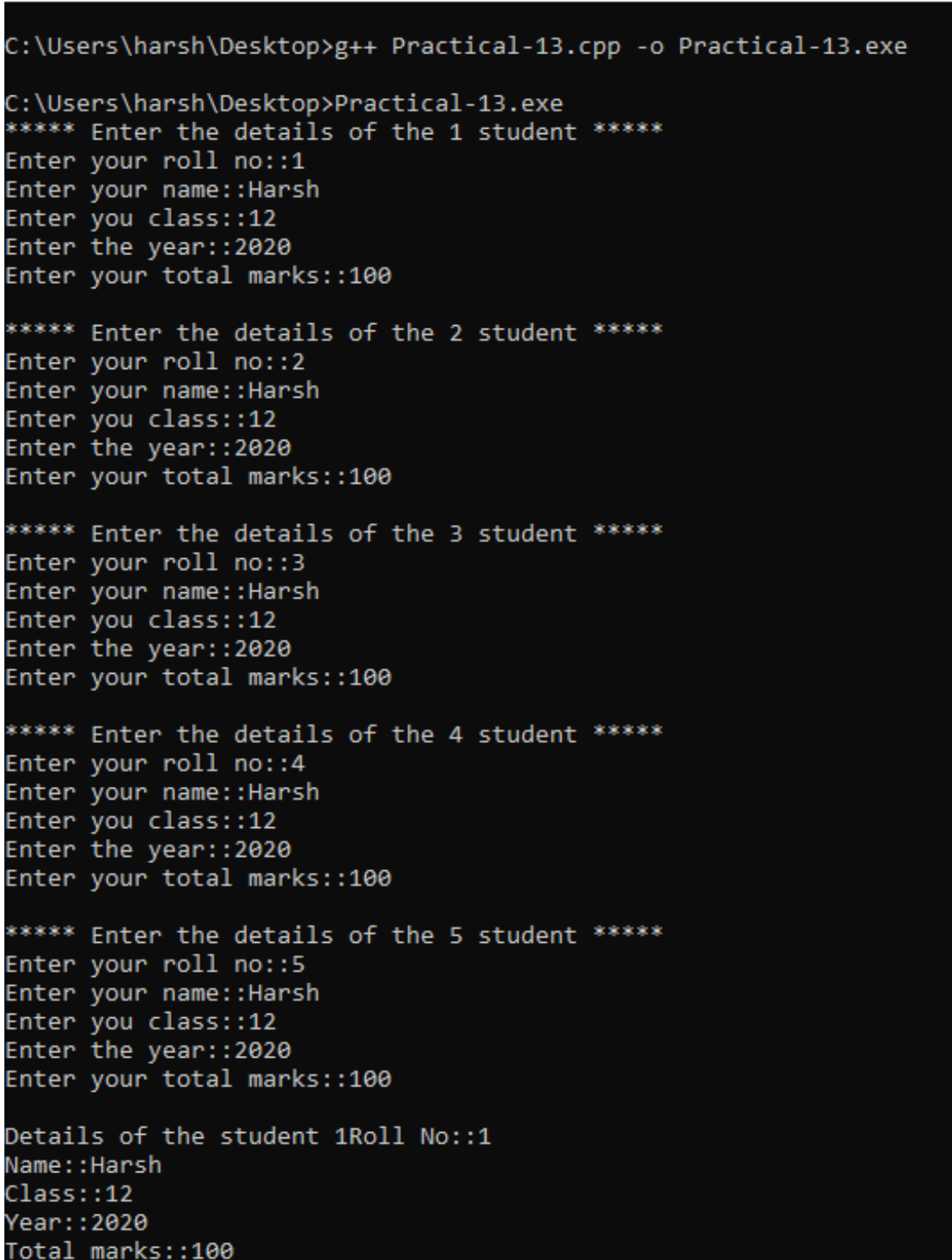
```
for(int i=0 ; i<5 ; i++)
        {
                cout << "Details of the student " << i+1 << endl;
                arr[i].display();                                    //printing the details
                cout << endl;                                        // by using function display
        }


        return 0;
  }
```

Output:-

Command Prompt

```
C:\Users\harsh\Desktop>g++ Practical-13.cpp -o Practical-13.exe

C:\Users\harsh\Desktop>Practical-13.exe
***** Enter the details of the 1 student *****
Enter your roll no::1
Enter your name::Harsh
Enter you class::12
Enter the year::2020
Enter your total marks::100

***** Enter the details of the 2 student *****
Enter your roll no::2
Enter your name::Harsh
Enter you class::12
Enter the year::2020
Enter your total marks::100

***** Enter the details of the 3 student *****
Enter your roll no::3
Enter your name::Harsh
Enter you class::12
Enter the year::2020
Enter your total marks::100

***** Enter the details of the 4 student *****
Enter your roll no::4
Enter your name::Harsh
Enter you class::12
Enter the year::2020
Enter your total marks::100

***** Enter the details of the 5 student *****
Enter your roll no::5
Enter your name::Harsh
Enter you class::12
Enter the year::2020
Enter your total marks::100

Details of the student 1Roll No::1
Name::Harsh
Class::12
Year::2020
Total marks::100
```

```
Command Prompt
***** Enter the details of the 5 student *****
Enter your roll no::5
Enter your name::Harsh
Enter you class::12
Enter the year::2020
Enter your total marks::100

Details of the student 1
Roll No::1
Name::Harsh
Class::12
Year::2020
Total marks::100

Details of the student 2
Roll No::2
Name::Harsh
Class::12
Year::2020
Total marks::100

Details of the student 3
Roll No::3
Name::Harsh
Class::12
Year::2020
Total marks::100

Details of the student 4
Roll No::4
Name::Harsh
Class::12
Year::2020
Total marks::100

Details of the student 5
Roll No::5
Name::Harsh
Class::12
Year::2020
Total marks::100
```

Harsh Bamotra

AC-1216