ESFP-2 Project

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AIM:

Class management System

A class management system contains entries of all semesters students as enrollment number, Name, father's Name, father's/Mother's Occupation, Address, contact number, semester number, date_of birth, subject-wise marks of 5 subjects as CO, Boss, DM, Esfp, DE and such as.

Task-1 : Create a class called student with above attributes and store the database for your batch (At-least 10 Students)

Specific task Group Member-1

1) **Display all the students whose name starts with "s"**
2) **Display all the students of semester 2,3 and 4.**
3) **Display all the name of students who are less than 20 years.**
4) **Display all the students who are less than 20 years and lives in Ahmedabad**
5) **Display all the students whose father's name starts with the alphabet their students(child) name's alphabet.**

Specific task Group Member-2

6) **Display all the students who have cleared DE exam.**
7) **Display all the students who have passed all the subjects.**
8) **Display all the students who have Highest marks in DM in comparison to their individual marks in other subjects,**
9) **Display all the students who have scored less than 60% in all the subjects together.**
10) **Display all the students who have scored more than 75% in three subjects.**

Specific task Group Member-3

11) **Display all the students who have two or more than 2 vowels in their name.**
12) **Display all the students who have surname as patel or shah.**
13) **Display all the students who have their entrepreneur parents.**
14) **Display all the students who are 18 years and scored more than 70%**
15) **Display all the student/s who have scored highest in individual subjects.**

Code:

```
#include <iostream>
#include <cstring>
#include <fstream>
using namespace std;

struct info
{
   int semnumber, sum, pdate, pmonth, pyear, bdate, bmonth, byear,
date, month, year;
   float percentage, per1, per2, per3, per4, per5, per6, per7, per8, per9,
per10;
   char name[20], fname[20];
   int CO, BOSS, DM, ESFP, DE;
   string address, fm_occupation, surname, enroll_number, cnumber;
} data[20];

class student
{
public:
   int i, m, j, count = 0, vowel = 0, year = 0, today = 0, highest = 0;
   void readdetails()
   {
   students:
      cout << "Enter Number Of Students:";
      cin >> m;
      if (m <= 1)
```

```
{
    cout << "Minimum 2 Students Should Be Present." << endl;
    goto students;
}
for (i = 1; i <= m; i++)
{
    ofstream obj;
    obj.open("PROJECT.txt", ios::app);
    //Student Name
    cout << "\nEnter Name Of Student " << i << ":";
    cin >> data[i].name >> data[i].surname;
    obj << "\nStudent " << i << " details" << endl
        << "Name:" << data[i].name << " " << data[i].surname << endl;

    //Enrollment Number
    cout << "Enter Enrollment Number Of Student " << i << ":";
    cin >> data[i].enroll_number;
    obj << "Enrollment Number:" << data[i].enroll_number << endl;

    //Contact Number
    cout << "Enter Contact Number Of Student " << i << ":";
    cin >> data[i].cnumber;
    obj << "Contact Number:" << data[i].cnumber << endl;

    //Father Name
    cout << "Enter Father Name Of Student " << i << ":";
    fflush(stdin);
    cin.getline(data[i].fname, 20);
```

```
        obj << "Father Name:" << data[i].fname << endl;

        //Occupation
        cout << "Enter Occupation Of Father/Mother Of Student " << i <<
":";
        cin >> data[i].fm_occupation;
        obj << "Father Occupation:" << data[i].fm_occupation << endl;

        //Address
        cout << "Enter Address Of Student " << i << ":";
        fflush(stdin);
        cin >> data[i].address;
        obj << "Address:" << data[i].address << endl;

        //Sem Number
        cout << "Enter SEM Number Of Student " << i << ":";
        cin >> data[i].semnumber;
        obj << "SEM:" << data[i].semnumber << endl;

        //DOB
        cout << "Enter Date of Birth Related Details For Student " << i << ":"
<< endl;

        //Birth Date
        cout << "Enter Your Date Of Birth in DD MM YYYY form:";
        cin >> data[i].bdate >> data[i].bmonth >> data[i].byear;
        obj << "Birth Date:" << data[i].bdate << " Birth Month:" <<
data[i].bmonth << " Birth Year:" << data[i].byear << endl;
```

```
        //Present Date
        cout << "Enter Present Date in DD MM YYYY form:";
        cin >> data[i].pdate >> data[i].pmonth >> data[i].pyear;
        obj << "Present Date:" << data[i].pdate << " Present Date:" <<
data[i].pmonth << " Present Year:" << data[i].pyear << endl;

        //CO marks
    one:
        cout << "Enter Marks Of CO For Student " << i << ":";
        cin >> data[i].CO;
        if (data[i].CO > 100 || data[i].CO < 0)
        {
            cout << "Entered Marks Are Invalid So Enter Again." << endl;
            goto one;
        }
        obj << "CO Marks:" << data[i].CO << endl;

        //BOSS marks
    two:
        cout << "Enter Marks Of BOSS For Student " << i << ":";
        cin >> data[i].BOSS;
        if (data[i].BOSS > 100 || data[i].BOSS < 0)
        {
            cout << "Entered Marks Are Invalid So Enter Again." << endl;
            goto two;
        }
        obj << "BOSS Marks:" << data[i].BOSS << endl;
```

```
    //DM marks
three:
    cout << "Enter Marks Of DM For Student " << i << ":";
    cin >> data[i].DM;
    if (data[i].DM > 100 || data[i].DM < 0)
    {
        cout << "Entered Marks Are Invalid So Enter Again." << endl;
        goto three;
    }
    obj << "DM Marks:" << data[i].DM << endl;

    //ESFP marks
four:
    cout << "Enter Marks Of ESFP For Student " << i << ":";
    cin >> data[i].ESFP;
    if (data[i].ESFP > 100 || data[i].ESFP < 0)
    {
        cout << "Entered Marks Are Invalid So Enter Again." << endl;
        goto four;
    }
    obj << "ESFP Marks:" << data[i].ESFP << endl;

    //DE marks
five:
    cout << "Enter Marks Of DE For Student " << i << ":";
    cin >> data[i].DE;
    if (data[i].DE > 100 || data[i].DE < 0)
    {
```

```
            cout << "Entered Marks Are Invalid So Enter Again." << endl;
            goto five;
        }
        obj << "DE Marks:" << data[i].DE << endl;
        obj.close();
    }
}

//Check Age
void DOB()
{

    int monthdate[] = {31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};
    for (i = 1; i <= m; i++)
    {
        data[i].year = data[i].pyear - data[i].byear;
        if (data[i].pmonth < data[i].bmonth)
        {
            data[i].year--;
            data[i].month = 12 - (data[i].bmonth - data[i].pmonth);
        }
        else if (data[i].pmonth <= data[i].bmonth && data[i].pdate <
data[i].bdate)
        {
            data[i].year--;
            data[i].month = 12 - (data[i].bmonth - data[i].pmonth);
        }
        else
```

```
        {
            data[i].month = data[i].pmonth - data[i].bmonth;
        }
        if (data[i].pdate < data[i].bdate)
        {
            data[i].month--;
            data[i].date = monthdate[data[i].pmonth - 1] - (data[i].bdate -
data[i].pdate);
        }
        else
        {
            data[i].date = data[i].pdate - data[i].bdate;
        }
      }
   }

   //Display all the students whose name starts with "s".
   void task11()
   {
      cout << "\n----------------------------------------------------------------
-------------------------------------------------------" << endl;
      cout << "Displaying The Name Of Student Whose Name Starts With
's':" << endl;
      for (i = 1; i <= m; i++)
      {
         if (data[i].name[0] == 's' || data[i].name[0] == 'S')
         {
            cout << data[i].name << endl;
            count++;
```

```
        }
    }
    if (count == 0)
    {
        cout << "No Student Name Starts With s or S" << endl;
    }
    cout << "-------------------------------------------------------------
-------------------------------------------------" << endl;
    count = 0;
  }

  //Display all the students of semester 2,3 and 4.
  void task12()
  {
    cout << "\n-------------------------------------------------------------
-------------------------------------------------" << endl;
    cout << "Displaying The Name Of Student Who Are From SEM 2,SEM
3 or SEM 4:" << endl;
    for (i = 1; i <= m; i++)
    {
        if (data[i].semnumber == 2 || data[i].semnumber == 3 ||
data[i].semnumber == 4)
        {
            cout << data[i].name << endl;
            count++;
        }
    }
    if (count == 0)
    {
```

```
        cout << "None Of The Student Is From SEM 2,SEM 3 or SEM 4" <<
endl;
    }
    cout << "-----------------------------------------------------------------
-------------------------------------------------" << endl;
    count = 0;
  }

  //Display all the name of studentswho are less than 20 years.
  void task13()
  {
    cout << "\n-----------------------------------------------------------------
-------------------------------------------------" << endl;
    cout << "Displaying The Name Of Student Who Are Less Than 20
Years:" << endl;
    for (i = 1; i <= m; i++)
    {
      if (data[i].year < 20)
      {
        cout << data[i].name << endl;
        count++;
      }
    }
    if (count == 0)
    {
      cout << "None Of The Student Is Of Age Less Than 20" << endl;
    }
    cout << "-----------------------------------------------------------------
-------------------------------------------------" << endl;
```

```
    count = 0;
  }

  //Display all the students who are less than 20 years and lives in Ahmedabad.
  void task14()
  {
    cout << "\n------------------------------------------------------------
------------------------------------------------------" << endl;
    cout << "Displaying The Name Of Student Who Are Less Than 20 Years And Also Lives In Ahmedabad:" << endl;

    for (i = 1; i <= m; i++)
    {

      if (data[i].year < 20 && data[i].address == "Ahmedabad")
      {
        cout << data[i].name << endl;
        count++;
      }
      if (data[i].year < 20 && data[i].address == "ahmedabad")
      {
        cout << data[i].name << endl;
        count++;
      }
    }
    if (count == 0)
    {
```

```
        cout << "None Of The Student Is In Category Of Age Less Than 20 And Lives In Ahmedabad" << endl;
    }
    cout << "-------------------------------------------------------------------------------------------------------" << endl;
    count = 0;
  }

  //Display all the students whose father's name starts with the alphabet their students(child) name's alphabet.
  void task15()
  {
    cout << "\n-------------------------------------------------------------------------------------------------------" << endl;
    cout << "Displaying The Name Of Student Whose Father's Name Starts With The Alphabet Their Students (Child) Name's Alphabet:" << endl;
    for (i = 1; i <= m; i++)
    {
      if (data[i].name[0] == data[i].fname[0])
      {
        cout << data[i].name << endl;
        count++;
      }
    }
    if (count == 0)
    {
      cout << "No Student Name Starts With Their Father's Name's Alphabet" << endl;
    }
```

```
    cout << "-------------------------------------------------------------
-------------------------------------------------------" << endl;
    count = 0;
  }

  //Display allthe students who have cleared DE exam.
  void task21()
  {
    cout << "\n-------------------------------------------------------------
-------------------------------------------------------" << endl;
    cout << "Displaying The Name Of Student Who Cleared DE Exam"
<< endl;
    for (i = 1; i <= m; i++)
    {
      if (data[i].DE >= 40)
      {
        cout << data[i].name << endl;
        count++;
      }
    }
    if (count == 0)
    {
      cout << "None Of The Student Has Cleared DE's Exam\n"
        << endl;
    }
    cout << "-------------------------------------------------------------
-------------------------------------------------------" << endl;
    count = 0;
  }
```

```
//Display all the students who have passed all the subjects.
void task22()
{
    cout << "\n-------------------------------------------------------------
-------------------------------------------------------" << endl;
    cout << "Displaying The Name Of Student Who Cleared All The
Exam" << endl;
    for (i = 1; i <= m; i++)
    {
        if (data[i].DE >= 40 && data[i].CO >= 40 && data[i].BOSS >= 40 &&
data[i].DM >= 40 && data[i].ESFP >= 40)
        {
            cout << data[i].name << endl;
            count++;
        }
    }
    if (count == 0)
    {
        cout << "None Of The Student Has Cleared All Exam\n"
             << endl;
    }
    cout << "-------------------------------------------------------------
-------------------------------------------------------" << endl;
    count = 0;
}

//Display all the students who have Highest marks in DM in
comparison to their individual marks in other subjects.
```

```
void task23()
{
    cout << "\n------------------------------------------------------------
-----------------------------------------------------" << endl;
    cout << "Displyaing The Students Who Have Highest Marks In DM In
Comparison To Their Individual Marks In Other Subjects" << endl;
    for (i = 1; i <= m; i++)
    {
        if (data[i].DM > data[i].CO && data[i].DM > data[i].BOSS &&
data[i].DM > data[i].ESFP && data[i].DM > data[i].DE)
        {
            cout << data[i].name << endl;
            count++;
        }
    }
    if (count == 0)
    {
        cout << "None Of The Student Has More Marks In DM Compared
To Other Subjects In Exam" << endl;
    }
    cout << "------------------------------------------------------------
-----------------------------------------------------" << endl;
    count = 0;
}

//Display all the students who have scored less than 60% in all
the subjects together.
void task24()
{
```

```
    cout << "\n-------------------------------------------------------------
-------------------------------------------------------" << endl;
    cout << "Displaying The Students Who Have Scored Less Than 60%
In All The Subjects Together" << endl;
    for (i = 1; i <= m; i++)
    {
        data[i].sum = data[i].CO + data[i].BOSS + data[i].DM +
data[i].ESFP + data[i].DE;
        data[i].percentage = data[i].sum / 5;
        if (data[i].percentage < 60)
        {
            cout << data[i].name << endl;
            count++;
        }
    }
    if (count == 0)
    {
        cout << "None Of The Student Has Percentage Less Than 60" <<
endl;
    }
    cout << "-------------------------------------------------------------
-------------------------------------------------------" << endl;
    count = 0;
  }

  //Display all the students who have scored more than 75% in three
subjects.
  void task25()
  {
```

```
    cout << "\n------------------------------------------------------------
------------------------------------------------------" << endl;
    cout << "Displaying The Students Who Have Scored More Than 75%
In Three Subjects" << endl;
    for (i = 1; i <= m; i++)
    {
        data[i].per1 = (data[i].CO + data[i].BOSS + data[i].DM) / 3;
        data[i].per2 = (data[i].CO + data[i].BOSS + data[i].ESFP) / 3;
        data[i].per3 = (data[i].CO + data[i].BOSS + data[i].DE) / 3;
        data[i].per4 = (data[i].CO + data[i].DM + data[i].ESFP) / 3;
        data[i].per5 = (data[i].CO + data[i].DM + data[i].DE) / 3;
        data[i].per6 = (data[i].CO + data[i].ESFP + data[i].DE) / 3;
        data[i].per7 = (data[i].BOSS + data[i].DM + data[i].ESFP) / 3;
        data[i].per8 = (data[i].BOSS + data[i].DM + data[i].DE) / 3;
        data[i].per9 = (data[i].BOSS + data[i].ESFP + data[i].DE) / 3;
        data[i].per10 = (data[i].DM + data[i].ESFP + data[i].DE) / 3;
        if (data[i].per1 > 75 || data[i].per2 > 75 || data[i].per3 > 75 ||
data[i].per4 > 75 || data[i].per5 > 75 || data[i].per6 > 75 || data[i].per7
> 75 || data[i].per8 > 75 || data[i].per9 > 75 || data[i].per10 > 75)
        {
            cout << data[i].name << endl;
            count++;
        }
    }
    if (count == 0)
    {
        cout << "None Of The Students Have Scored More Than 75% In
Three Subjects" << endl;
    }
```

```
    cout << "-------------------------------------------------------------
-------------------------------------------------------" << endl;
    count = 0;
  }

  //Display all the students who have two or more than 2 vowels in their
name.
  void task31()
  {
    cout << "\n-------------------------------------------------------------
-------------------------------------------------------" << endl;
    cout << "Displaying The Students Who Have Two Or More Than 2
Vowels In Their Name" << endl;
    for (i = 1; i <= m; i++)
    {
      for (j = 0; j < strlen(data[i].name); j++)
      {
        if (data[i].name[j] == 'a' || data[i].name[j] == 'e' ||
data[i].name[j] == 'i' || data[i].name[j] == 'o' || data[i].name[j] == 'u')
          vowel++;
      }
      if (vowel >= 2)
      {
        cout << data[i].name << endl;
        count++;
      }
    }
    if (count == 0)
    {
```

```
        cout << "None Of The Students Have Two Or More Than 2 Vowels
In Their Name" << endl;
    }
    cout << "-----------------------------------------------------------------
-----------------------------------------------------" << endl;
    count = 0;
  }

  //Display all the students who have surname as patel or shah.
  void task32()
  {
    cout << "\n-----------------------------------------------------------------
-----------------------------------------------------" << endl;
    cout << "Displaying The Name Of Student Who Have Their Surname
As Patel And Shah" << endl;
    for (i = 1; i <= m; i++)
    {
      if (data[i].surname == "shah" || data[i].surname == "Shah" ||
data[i].surname == "patel" || data[i].surname == "Patel")
      {
        cout << data[i].name << endl;
        count++;
      }
    }
    if (count == 0)
    {
      cout << "None Of The Students Have Their Surname As Shah Or
Patel\n"
           << endl;
```

```
    }
    cout << "-----------------------------------------------------------------
-------------------------------------------------------" << endl;
    count = 0;
  }
  //Display all the students who have their entrepreneur parents.
  void task33()
  {
    cout << "\n-----------------------------------------------------------------
-------------------------------------------------------" << endl;
    cout << "Displaying All The Students Who Have Their Entrepreneur
Parents" << endl;
    for (i = 1; i <= m; i++)
    {
      if (data[i].fm_occupation == "entrepreneur" ||
data[i].fm_occupation == "Entrepreneur")
      {
        cout << data[i].name << endl;
        count++;
      }
    }
    if (count == 0)
    {
      cout << "None Of The Student Have Their Entrepreneur Parents\n"
        << endl;
    }
    cout << "-----------------------------------------------------------------
-------------------------------------------------------" << endl;
    count = 0;
```

```
    }
    //Display all the students who are 18 years and scored more than 70%.
    void task34()
    {
        cout << "\n-------------------------------------------------------------
------------------------------------------------------" << endl;
        cout << "Displaying The Students Who Are 18 Years And Scored More Than 70%." << endl;
        for (i = 1; i <= m; i++)
        {
            data[i].sum = data[i].CO + data[i].BOSS + data[i].DM + data[i].ESFP + data[i].DE;
            data[i].percentage = data[i].sum / 5;
            if (data[i].year == 18 && data[i].percentage > 70)
            {
                cout << data[i].name << endl;
                count++;
            }
        }
        if (count == 0)
        {
            cout << "None Of The Students Are Of 18 Years And Scored More Than 70%" << endl;
        }
        cout << "-------------------------------------------------------------
------------------------------------------------------" << endl;
        count = 0;
    }
```

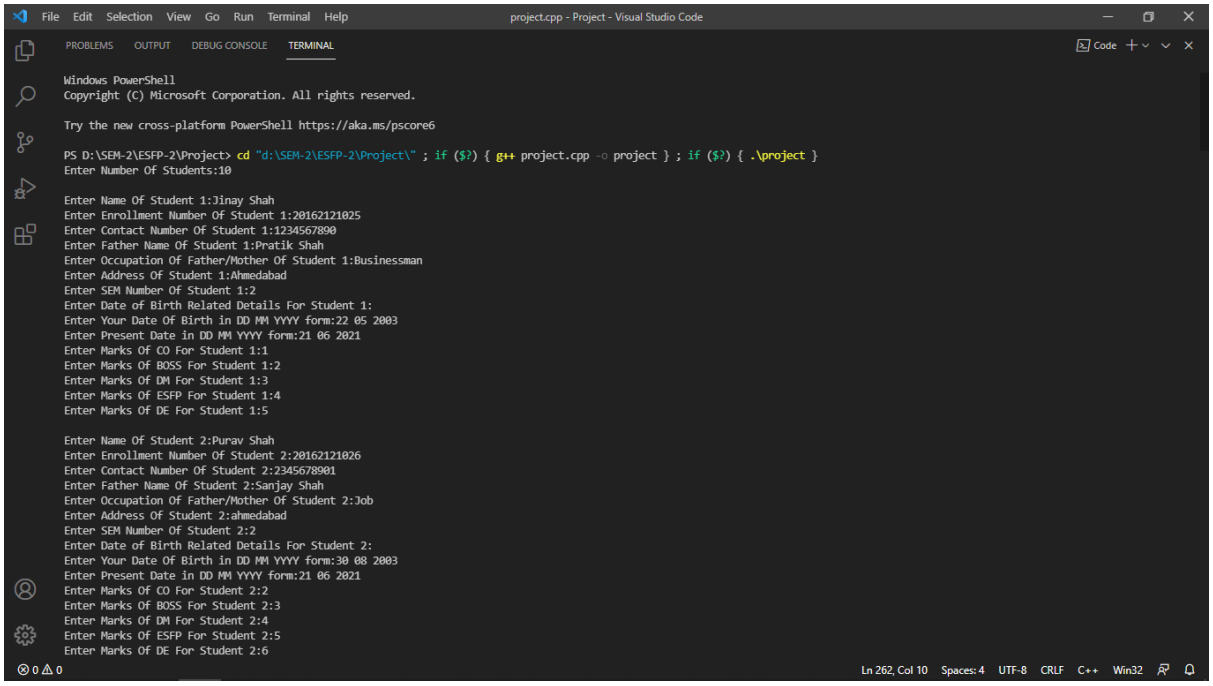
```
//Display all the student/s who have scored highest in individual subjects.
void task35()
{
    cout << "\n------------------------------------------------------------
------------------------------------------------------" << endl;
    cout << "Displaying The Student/s Who Have Scored Highest In Individual Subjects" << endl;
    cout << "Name Of Student Who Got Highest In CO:" << endl;
    for (i = 1; i <= m; i++)
    {
        if (data[i].CO >= highest)
        {
            highest = data[i].CO;
        }
    }
    for (i = 1; i <= m; i++)
    {
        if (data[i].CO == highest)
        {
            cout << data[i].name << endl;
        }
    }
    highest = 0;
    cout << "Name Of Student Who Got Highest In BOSS:" << endl;
    for (i = 1; i <= m; i++)
    {
        if (data[i].BOSS >= highest)
        {
```

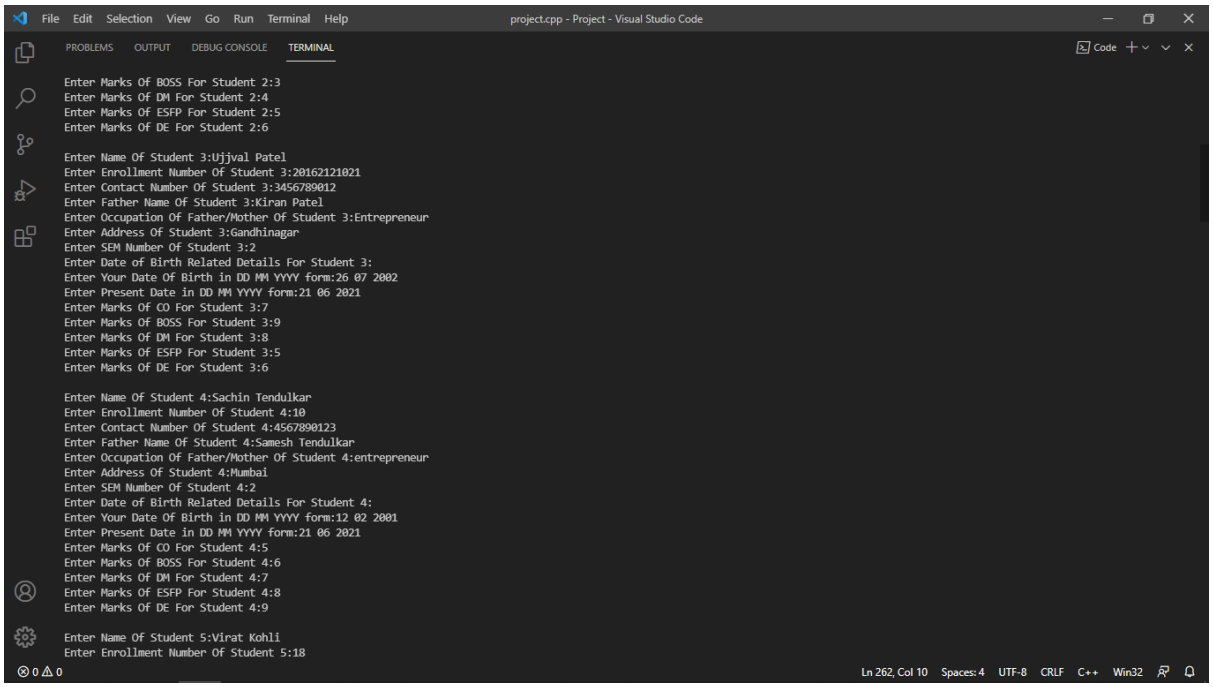
```
            highest = data[i].BOSS;
        }
    }
    for (i = 1; i <= m; i++)
    {
        if (data[i].BOSS == highest)
        {
            cout << data[i].name << endl;
        }
    }
    highest = 0;
    cout << "Name Of Student Who Got Highest In DM:" << endl;
    for (i = 1; i <= m; i++)
    {
        if (data[i].DM >= highest)
        {
            highest = data[i].DM;
        }
    }
    for (i = 1; i <= m; i++)
    {
        if (data[i].DM == highest)
        {
            cout << data[i].name << endl;
        }
    }
    highest = 0;
    cout << "Name Of Student Who Got Highest In BOSS:" << endl;
```

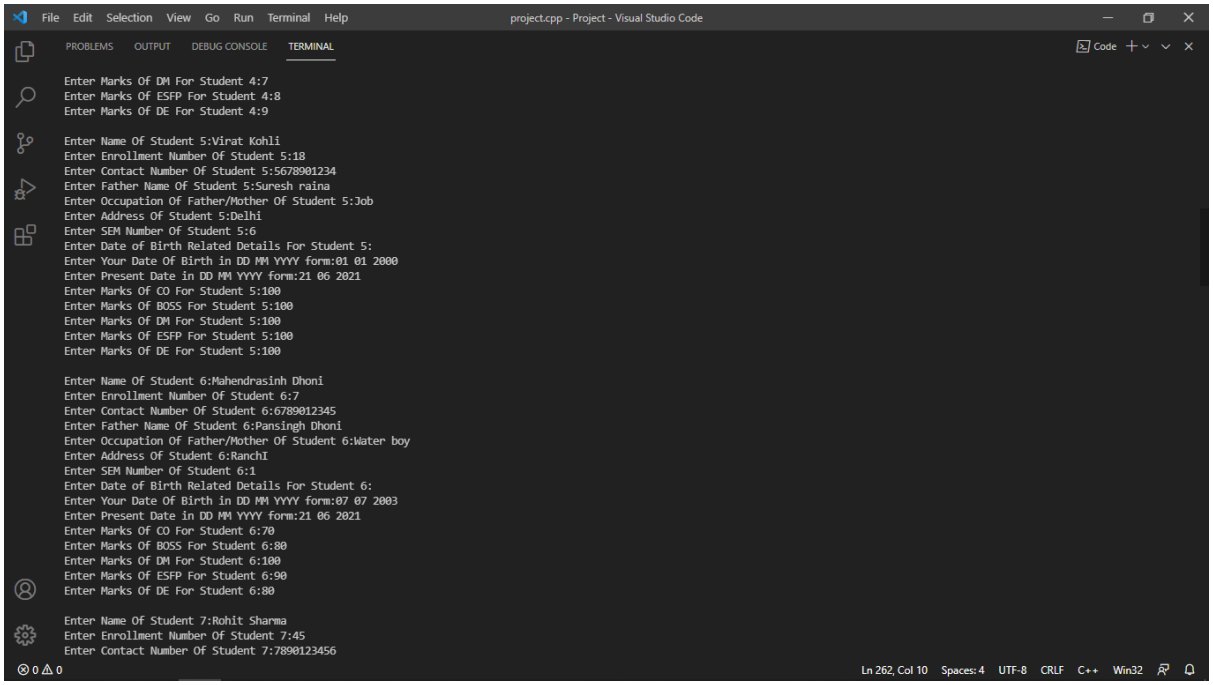
```
    for (i = 1; i <= m; i++)
    {
        if (data[i].ESFP >= highest)
        {
            highest = data[i].ESFP;
        }
    }
    for (i = 1; i <= m; i++)
    {
        if (data[i].ESFP == highest)
        {
            cout << data[i].name << endl;
        }
    }
highest = 0;
    cout << "Name Of Student Who Got Highest In DE:" << endl;
    for (i = 1; i <= m; i++)
    {
        if (data[i].DE >= highest)
        {
            highest = data[i].DE;
        }
    }
    for (i = 1; i <= m; i++)
    {
        if (data[i].DE == highest)
        {
            cout << data[i].name << endl;
```

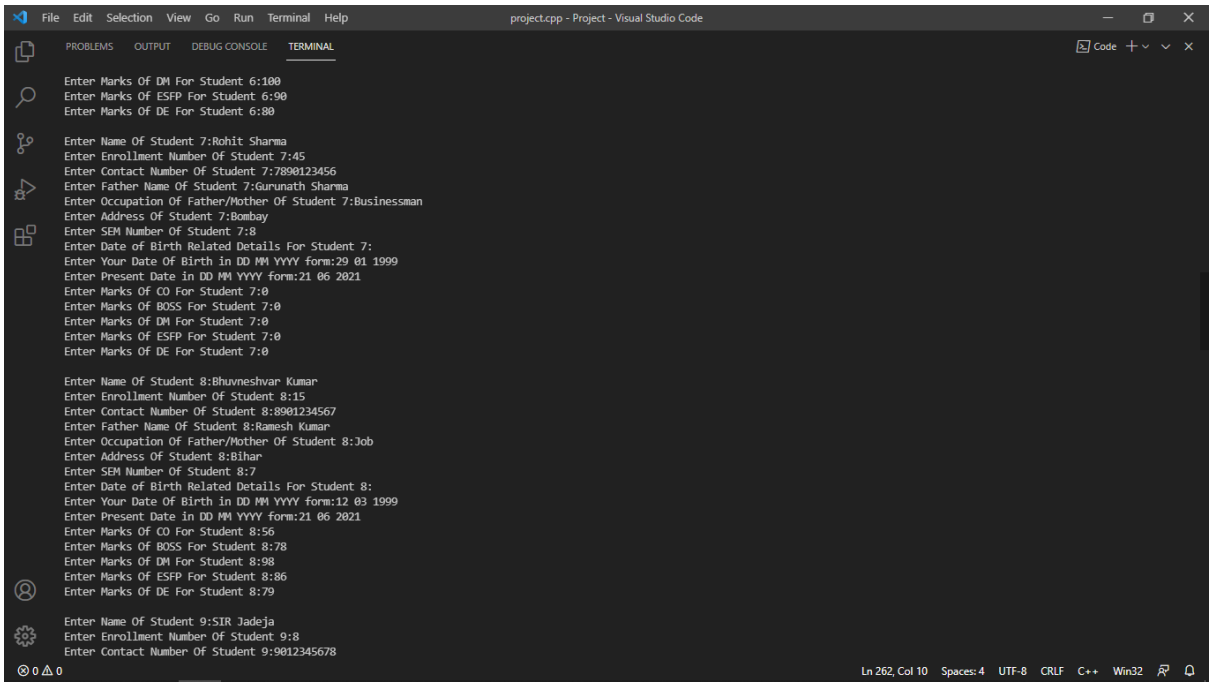
```
            }
        }
        cout << "-------------------------------------------------------------
-------------------------------------------------------" << endl;
        highest = 0;
    }
};
int main()
{ student obj;
    obj.readdetails();
    obj.DOB();
    obj.task11();
    obj.task12();
    obj.task13();
    obj.task14();
    obj.task15();
    obj.task21();
    obj.task22();
    obj.task23();
    obj.task24();
    obj.task25();
    obj.task31();
    obj.task32();
    obj.task33();
    obj.task34();
    obj.task35();
    return 0;
}
```

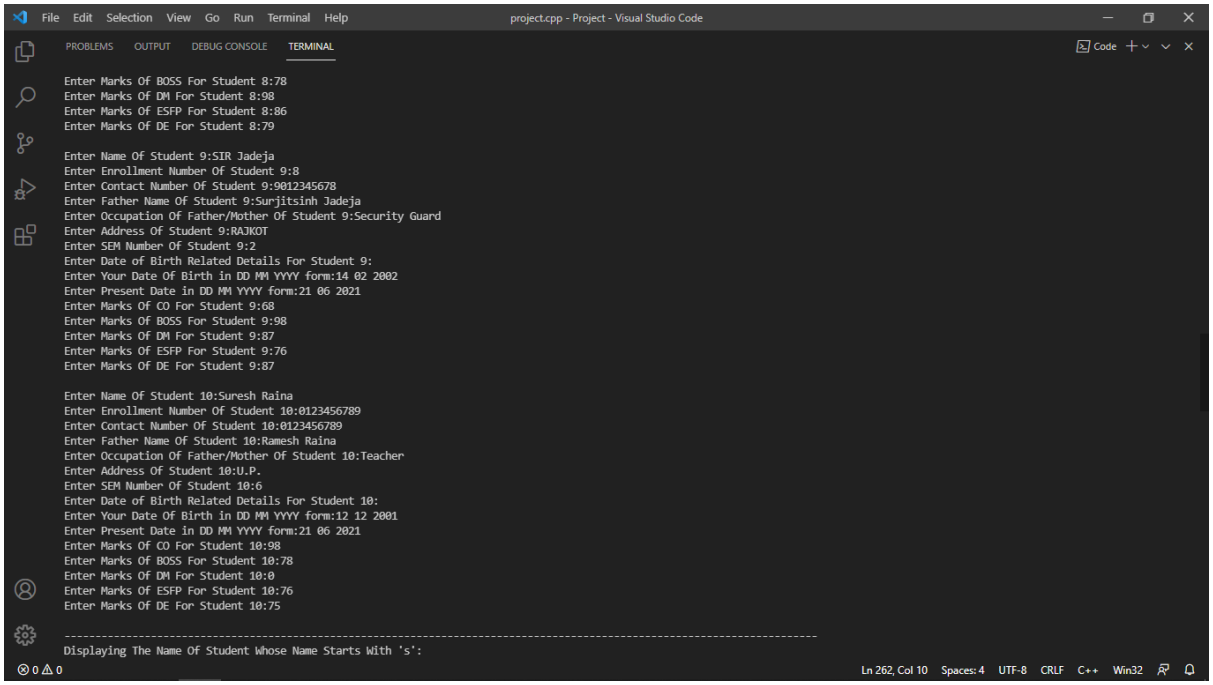
OUTPUT

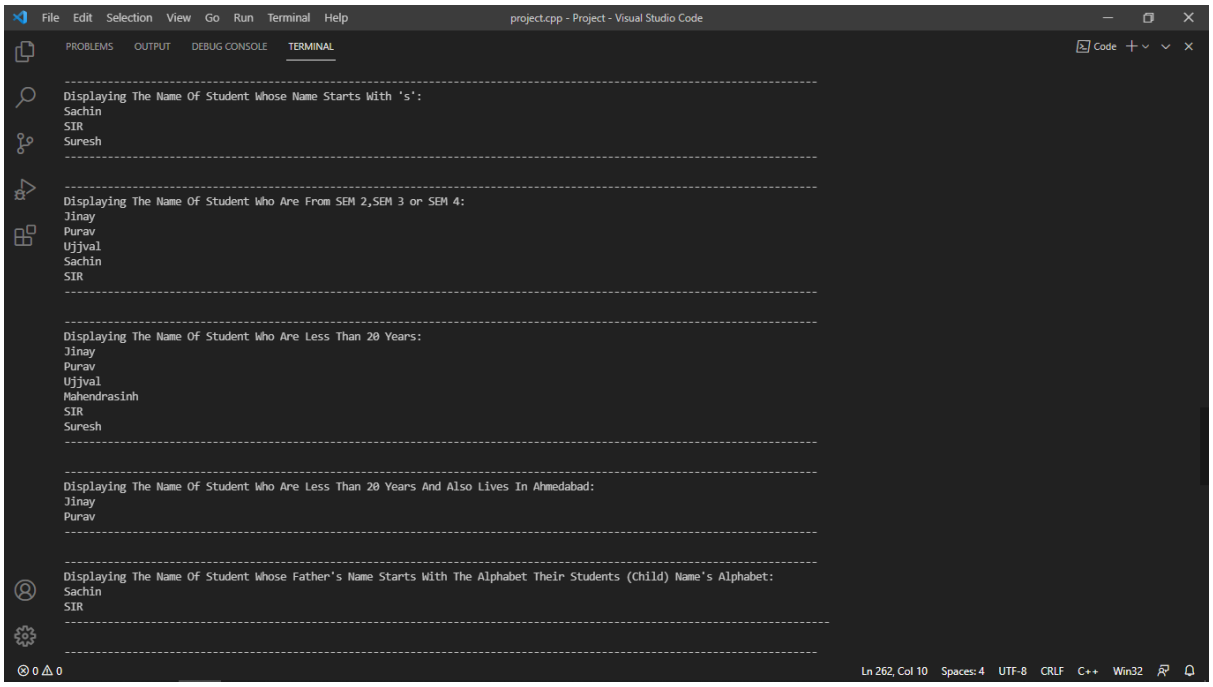

File Edit Selection View Go Run Terminal Help
project.cpp - Project - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS D:\SEM-2\ESFP-2\Project> cd "d:\SEM-2\ESFP-2\Project\" ; if ($?) { g++ project.cpp -o project } ; if ($?) { .\project }
Enter Number Of Students:10
Enter Name Of Student 1:Jinay Shah
Enter Enrollment Number Of Student 1:20162121025
Enter Contact Number Of Student 1:1234567890
Enter Father Name Of Student 1:Pratik Shah
Enter Occupation Of Father/Mother Of Student 1:Businessman
Enter Address Of Student 1:Ahmedabad
Enter SEM Number Of Student 1:2
Enter Date of Birth Related Details For Student 1:
Enter Your Date Of Birth in DD MM YYYY form:22 05 2003
Enter Present Date in DD MM YYYY form:21 06 2021
Enter Marks Of CO For Student 1:1
Enter Marks Of BOSS For Student 1:2
Enter Marks Of DM For Student 1:3
Enter Marks Of ESFP For Student 1:4
Enter Marks Of DE For Student 1:5
Enter Name Of Student 2:Purav Shah
Enter Enrollment Number Of Student 2:20162121026
Enter Contact Number Of Student 2:2345678901
Enter Father Name Of Student 2:Sanjay Shah
Enter Occupation Of Father/Mother Of Student 2:Job
Enter Address Of Student 2:ahmedabad
Enter SEM Number Of Student 2:2
Enter Date of Birth Related Details For Student 2:
Enter Your Date Of Birth in DD MM YYYY form:30 08 2003
Enter Present Date in DD MM YYYY form:21 06 2021
Enter Marks Of CO For Student 2:2
Enter Marks Of BOSS For Student 2:3
Enter Marks Of DM For Student 2:4
Enter Marks Of ESFP For Student 2:5
Enter Marks Of DE For Student 2:6
Ln 262, Col 10 Spaces: 4 UTF-8 CRLF C++ Win32

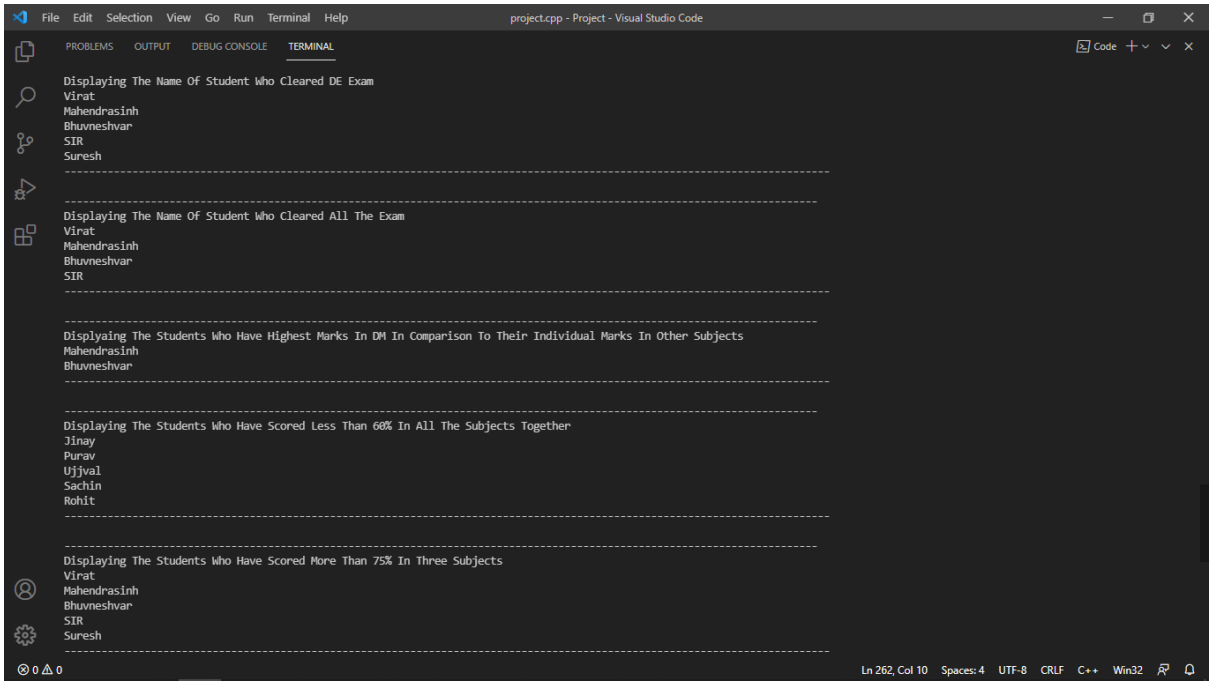

File Edit Selection View Go Run Terminal Help
project.cpp - Project - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
Enter Marks Of BOSS For Student 2:3
Enter Marks Of DM For Student 2:4
Enter Marks Of ESFP For Student 2:5
Enter Marks Of DE For Student 2:6
Enter Name Of Student 3:Ujjval Patel
Enter Enrollment Number Of Student 3:20162121021
Enter Contact Number Of Student 3:3456789012
Enter Father Name Of Student 3:Kiran Patel
Enter Occupation Of Father/Mother Of Student 3:Entrepreneur
Enter Address Of Student 3:Gandhinagar
Enter SEM Number Of Student 3:2
Enter Date of Birth Related Details For Student 3:
Enter Your Date Of Birth in DD MM YYYY form:26 07 2002
Enter Present Date in DD MM YYYY form:21 06 2021
Enter Marks Of CO For Student 3:7
Enter Marks Of BOSS For Student 3:9
Enter Marks Of DM For Student 3:8
Enter Marks Of ESFP For Student 3:5
Enter Marks Of DE For Student 3:6
Enter Name Of Student 4:Sachin Tendulkar
Enter Enrollment Number Of Student 4:10
Enter Contact Number Of Student 4:4567890123
Enter Father Name Of Student 4:Samesh Tendulkar
Enter Occupation Of Father/Mother Of Student 4:entrepreneur
Enter Address Of Student 4:Mumbai
Enter SEM Number Of Student 4:2
Enter Date of Birth Related Details For Student 4:
Enter Your Date Of Birth in DD MM YYYY form:12 02 2001
Enter Present Date in DD MM YYYY form:21 06 2021
Enter Marks Of CO For Student 4:5
Enter Marks Of BOSS For Student 4:6
Enter Marks Of DM For Student 4:7
Enter Marks Of ESFP For Student 4:8
Enter Marks Of DE For Student 4:9
Enter Name Of Student 5:Virat Kohli
Enter Enrollment Number Of Student 5:18
Ln 262, Col 10 Spaces: 4 UTF-8 CRLF C++ Win32

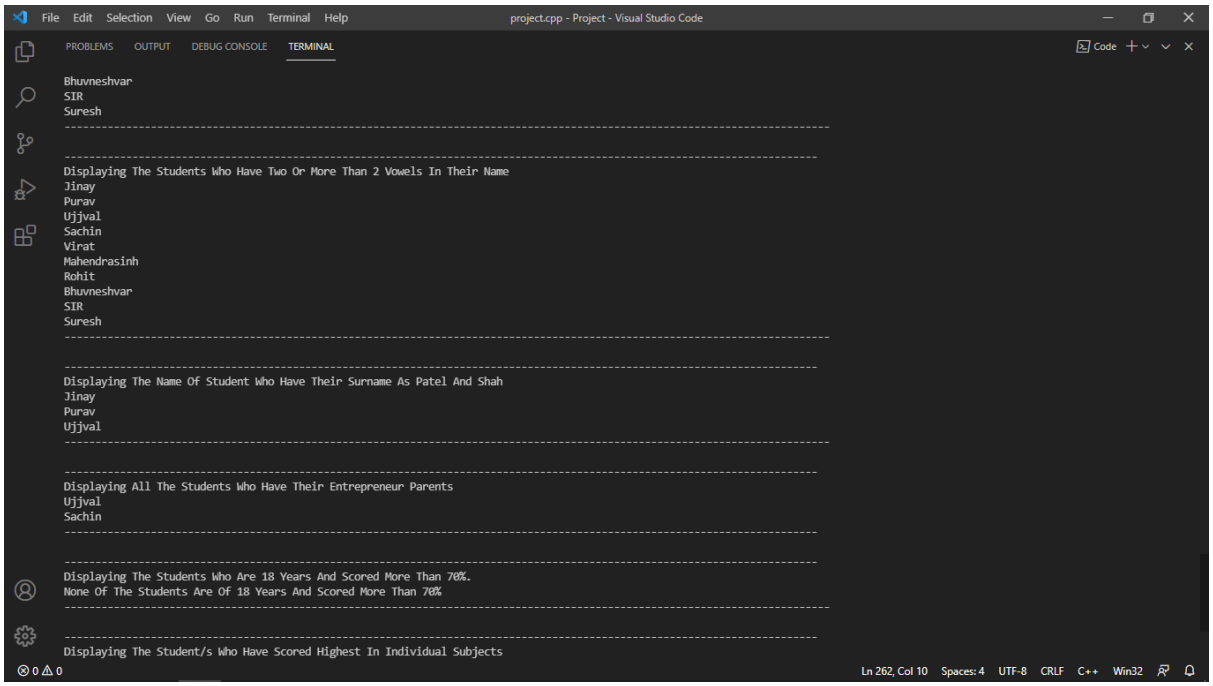

File Edit Selection View Go Run Terminal Help
project.cpp - Project - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
Enter Marks Of DM For Student 4:7
Enter Marks Of ESFP For Student 4:8
Enter Marks Of DE For Student 4:9
Enter Name Of Student 5:Virat Kohli
Enter Enrollment Number Of Student 5:18
Enter Contact Number Of Student 5:5678901234
Enter Father Name Of Student 5:Suresh raina
Enter Occupation Of Father/Mother Of Student 5:Job
Enter Address Of Student 5:Delhi
Enter SEM Number Of Student 5:6
Enter Date of Birth Related Details For Student 5:
Enter Your Date Of Birth in DD MM YYYY form:01 01 2000
Enter Present Date in DD MM YYYY form:21 06 2021
Enter Marks Of CO For Student 5:100
Enter Marks Of BOSS For Student 5:100
Enter Marks Of DM For Student 5:100
Enter Marks Of ESFP For Student 5:100
Enter Marks Of DE For Student 5:100
Enter Name Of Student 6:Mahendrasinh Dhoni
Enter Enrollment Number Of Student 6:7
Enter Contact Number Of Student 6:6789012345
Enter Father Name Of Student 6:Pansingh Dhoni
Enter Occupation Of Father/Mother Of Student 6:Water boy
Enter Address Of Student 6:RanchI
Enter SEM Number Of Student 6:1
Enter Date of Birth Related Details For Student 6:
Enter Your Date Of Birth in DD MM YYYY form:07 07 2003
Enter Present Date in DD MM YYYY form:21 06 2021
Enter Marks Of CO For Student 6:70
Enter Marks Of BOSS For Student 6:80
Enter Marks Of DM For Student 6:100
Enter Marks Of ESFP For Student 6:90
Enter Marks Of DE For Student 6:80
Enter Name Of Student 7:Rohit Sharma
Enter Enrollment Number Of Student 7:45
Enter Contact Number Of Student 7:7890123456
0 0
Ln 262, Col 10 Spaces: 4 UTF-8 CRLF C++ Win32

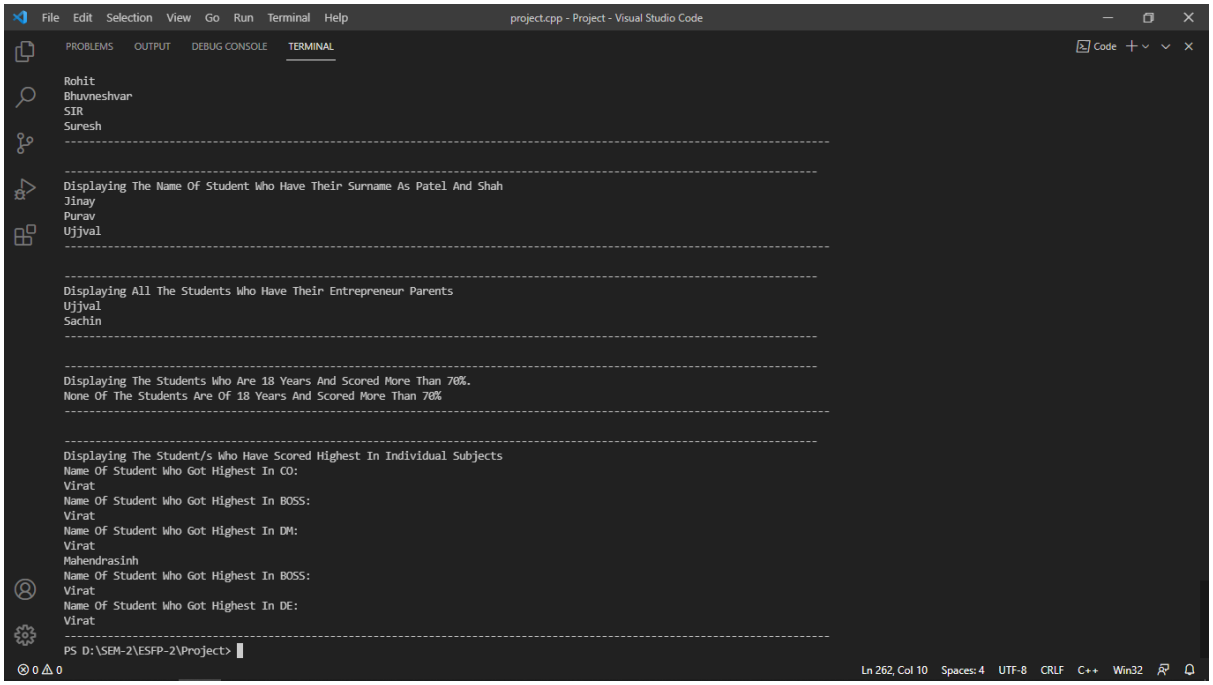

File Edit Selection View Go Run Terminal Help
project.cpp - Project - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
Enter Marks Of DM For Student 6:100
Enter Marks Of ESFP For Student 6:90
Enter Marks Of DE For Student 6:80
Enter Name Of Student 7:Rohit Sharma
Enter Enrollment Number Of Student 7:45
Enter Contact Number Of Student 7:7890123456
Enter Father Name Of Student 7:Gurunath Sharma
Enter Occupation Of Father/Mother Of Student 7:Businessman
Enter Address Of Student 7:Bombay
Enter SEM Number Of Student 7:8
Enter Date of Birth Related Details For Student 7:
Enter Your Date Of Birth in DD MM YYYY form:29 01 1999
Enter Present Date in DD MM YYYY form:21 06 2021
Enter Marks Of CO For Student 7:0
Enter Marks Of BOSS For Student 7:0
Enter Marks Of DM For Student 7:0
Enter Marks Of ESFP For Student 7:0
Enter Marks Of DE For Student 7:0
Enter Name Of Student 8:Bhuvneshvar Kumar
Enter Enrollment Number Of Student 8:15
Enter Contact Number Of Student 8:8901234567
Enter Father Name Of Student 8:Ramesh Kumar
Enter Occupation Of Father/Mother Of Student 8:Job
Enter Address Of Student 8:Bihar
Enter SEM Number Of Student 8:7
Enter Date of Birth Related Details For Student 8:
Enter Your Date Of Birth in DD MM YYYY form:12 03 1999
Enter Present Date in DD MM YYYY form:21 06 2021
Enter Marks Of CO For Student 8:56
Enter Marks Of BOSS For Student 8:78
Enter Marks Of DM For Student 8:98
Enter Marks Of ESFP For Student 8:86
Enter Marks Of DE For Student 8:79
Enter Name Of Student 9:SIR Jadeja
Enter Enrollment Number Of Student 9:8
Enter Contact Number Of Student 9:9012345678
0 0
Ln 262, Col 10 Spaces: 4 UTF-8 CRLF C++ Win32


File Edit Selection View Go Run Terminal Help
project.cpp - Project - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
Enter Marks Of BOSS For Student 8:78
Enter Marks Of DM For Student 8:98
Enter Marks Of ESFP For Student 8:86
Enter Marks Of DE For Student 8:79
Enter Name Of Student 9:SIR Jadeja
Enter Enrollment Number Of Student 9:8
Enter Contact Number Of Student 9:9012345678
Enter Father Name Of Student 9:Surjitsinh Jadeja
Enter Occupation Of Father/Mother Of Student 9:Security Guard
Enter Address Of Student 9:RAJKOT
Enter SEM Number Of Student 9:2
Enter Date of Birth Related Details For Student 9:
Enter Your Date Of Birth in DD MM YYYY form:14 02 2002
Enter Present Date in DD MM YYYY form:21 06 2021
Enter Marks Of CO For Student 9:68
Enter Marks Of BOSS For Student 9:98
Enter Marks Of DM For Student 9:87
Enter Marks Of ESFP For Student 9:76
Enter Marks Of DE For Student 9:87
Enter Name Of Student 10:Suresh Raina
Enter Enrollment Number Of Student 10:0123456789
Enter Contact Number Of Student 10:0123456789
Enter Father Name Of Student 10:Ramesh Raina
Enter Occupation Of Father/Mother Of Student 10:Teacher
Enter Address Of Student 10:U.P.
Enter SEM Number Of Student 10:6
Enter Date of Birth Related Details For Student 10:
Enter Your Date Of Birth in DD MM YYYY form:12 12 2001
Enter Present Date in DD MM YYYY form:21 06 2021
Enter Marks Of CO For Student 10:98
Enter Marks Of BOSS For Student 10:78
Enter Marks Of DM For Student 10:0
Enter Marks Of ESFP For Student 10:76
Enter Marks Of DE For Student 10:75
Displaying The Name Of Student Whose Name Starts With 's':
Ln 262, Col 10 Spaces: 4 UTF-8 CRLF C++ Win32


File Edit Selection View Go Run Terminal Help
project.cpp - Project - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
Displaying The Name Of Student Whose Name Starts With 's':
Sachin
SIR
Suresh
Displaying The Name Of Student Who Are From SEM 2,SEM 3 or SEM 4:
Jinay
Purav
Ujjval
Sachin
SIR
Displaying The Name Of Student Who Are Less Than 20 Years:
Jinay
Purav
Ujjval
Mahendrasinh
SIR
Suresh
Displaying The Name Of Student Who Are Less Than 20 Years And Also Lives In Ahmedabad:
Jinay
Purav
Displaying The Name Of Student Whose Father's Name Starts With The Alphabet Their Students (Child) Name's Alphabet:
Sachin
SIR
Ln 262, Col 10 Spaces: 4 UTF-8 CRLF C++ Win32


File Edit Selection View Go Run Terminal Help
project.cpp - Project - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
Displaying The Name Of Student Who Cleared DE Exam
Virat
Mahendrasinh
Bhuvneshvar
SIR
Suresh
Displaying The Name Of Student Who Cleared All The Exam
Virat
Mahendrasinh
Bhuvneshvar
SIR
Displyaing The Students Who Have Highest Marks In DM In Comparison To Their Individual Marks In Other Subjects
Mahendrasinh
Bhuvneshvar
Displaying The Students Who Have Scored Less Than 60% In All The Subjects Together
Jinay
Purav
Ujjval
Sachin
Rohit
Displaying The Students Who Have Scored More Than 75% In Three Subjects
Virat
Mahendrasinh
Bhuvneshvar
SIR
Suresh
Ln 262, Col 10 Spaces: 4 UTF-8 CRLF C++ Win32


File Edit Selection View Go Run Terminal Help
project.cpp - Project - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
Bhuvneshvar
SIR
Suresh
Displaying The Students Who Have Two Or More Than 2 Vowels In Their Name
Jinay
Purav
Ujjval
Sachin
Virat
Mahendrasinh
Rohit
Bhuvneshvar
SIR
Suresh
Displaying The Name Of Student Who Have Their Surname As Patel And Shah
Jinay
Purav
Ujjval
Displaying All The Students Who Have Their Entrepreneur Parents
Ujjval
Sachin
Displaying The Students Who Are 18 Years And Scored More Than 70%.
None Of The Students Are Of 18 Years And Scored More Than 70%
Displaying The Student/s Who Have Scored Highest In Individual Subjects
Ln 262, Col 10 Spaces: 4 UTF-8 CRLF C++ Win32



DATA From PROJECT.TXT File:

Student 1 details

Name:Jinay Shah

Enrollment Number:20162121025

Contact Number:1234567890

Father Name:Pratik Shah

Father Occupation:Businessman

Address:Ahmedabad

SEM:2

Birth Date:22 Birth Month:5 Birth Year:2003

Present Date:21 Present Date:6 Present Year:2021

CO Marks:1

BOSS Marks:2

DM Marks:3

ESFP Marks:4

DE Marks:5

Student 2 details

Name:Purav Shah

Enrollment Number:20162121026

Contact Number:2345678901

Father Name:Sanjay Shah

Father Occupation:Job

Address:ahmedabad

SEM:2

Birth Date:30 Birth Month:8 Birth Year:2003

Present Date:21 Present Date:6 Present Year:2021

CO Marks:2

BOSS Marks:3

DM Marks:4

ESFP Marks:5

DE Marks:6

Student 3 details

Name:Ujjval Patel

Enrollment Number:20162121021

Contact Number:3456789012

Father Name:Kiran Patel

Father Occupation:Entrepreneur

Address:Gandhinagar

SEM:2

Birth Date:26 Birth Month:7 Birth Year:2002

Present Date:21 Present Date:6 Present Year:2021

CO Marks:7

BOSS Marks:9

DM Marks:8

ESFP Marks:5

DE Marks:6

Student 4 details

Name:Sachin Tendulkar

Enrollment Number:10

Contact Number:4567890123

Father Name:Samesh Tendulkar

Father Occupation:entrepreneur

Address:Mumbai

SEM:2

Birth Date:12 Birth Month:2 Birth Year:2001

Present Date:21 Present Date:6 Present Year:2021

CO Marks:5

BOSS Marks:6

DM Marks:7

ESFP Marks:8

DE Marks:9

Student 5 details

Name:Virat Kohli

Enrollment Number:18

Contact Number:5678901234

Father Name:Suresh raina

Father Occupation:Job

Address:Delhi

SEM:6

Birth Date:1 Birth Month:1 Birth Year:2000

Present Date:21 Present Date:6 Present Year:2021

CO Marks:100

BOSS Marks:100

DM Marks:100

ESFP Marks:100

DE Marks:100

Student 6 details

Name:Mahendrasinh Dhoni

Enrollment Number:7

Contact Number:6789012345

Father Name:Pansingh Dhoni

Father Occupation:Water

Address:Ranchl

SEM:1

Birth Date:7 Birth Month:7 Birth Year:2003

Present Date:21 Present Date:6 Present Year:2021

CO Marks:70

BOSS Marks:80

DM Marks:100

ESFP Marks:90

DE Marks:80

Student 7 details

Name:Rohit Sharma

Enrollment Number:45

Contact Number:7890123456

Father Name:Gurunath Sharma

Father Occupation:Businessman

Address:Bombay

SEM:8

Birth Date:29 Birth Month:1 Birth Year:1999

Present Date:21 Present Date:6 Present Year:2021

CO Marks:0

BOSS Marks:0

DM Marks:0

ESFP Marks:0

DE Marks:0

Student 8 details

Name:Bhuvneshvar Kumar

Enrollment Number:15

Contact Number:8901234567

Father Name:Ramesh Kumar

Father Occupation:Job

Address:Bihar

SEM:7

Birth Date:12 Birth Month:3 Birth Year:1999

Present Date:21 Present Date:6 Present Year:2021

CO Marks:56

BOSS Marks:78

DM Marks:98

ESFP Marks:86

DE Marks:79

Student 9 details

Name:SIR Jadeja

Enrollment Number:8

Contact Number:9012345678

Father Name:Surjitsinh Jadeja

Father Occupation:Security

Address:RAJKOT

SEM:2

Birth Date:14 Birth Month:2 Birth Year:2002

Present Date:21 Present Date:6 Present Year:2021

CO Marks:68

BOSS Marks:98

DM Marks:87

ESFP Marks:76

DE Marks:87

Student 10 details

Name:Suresh Raina

Enrollment Number:0123456789

Contact Number:0123456789

Father Name:Ramesh Raina

Father Occupation:Teacher

Address:U.P.

SEM:6

Birth Date:12 Birth Month:12 Birth Year:2001

Present Date:21 Present Date:6 Present Year:2021

CO Marks:98

BOSS Marks:78

DM Marks:0

ESFP Marks:76

DE Marks:75