

QUIZ-1 OOPs LAB

AARYAN KUMAR

CSSE-2

CODE FROM IDE:

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

class student{
private:
    string name_8134;
    int rollno_8134;
    int age_8134;
    string section_8134;

public:
    void get_data(){
        cout << "Name of the student: ";
        cin >> name_8134;
        cout << "Rollno of the student: ";
        cin >> rollno_8134;
        cout << "Age of the student: ";
        cin >> age_8134;
        cout << "Section of the student: ";
        cin >> section_8134;
    }

    void display_data(){
        cout << "\nName of the student: " << name_8134;
        cout << "\nRollno of the student: " << rollno_8134 ;
        cout << "\nAge of the student: " << age_8134;
        cout << "\nSection of the student: " << section_8134;
    }
} s;

class mark{
private:
```

```

    int oop_theory_8134;
    int oop_lab_8134;
    int dsa_theory_8134;
    int dsa_lab_8134;

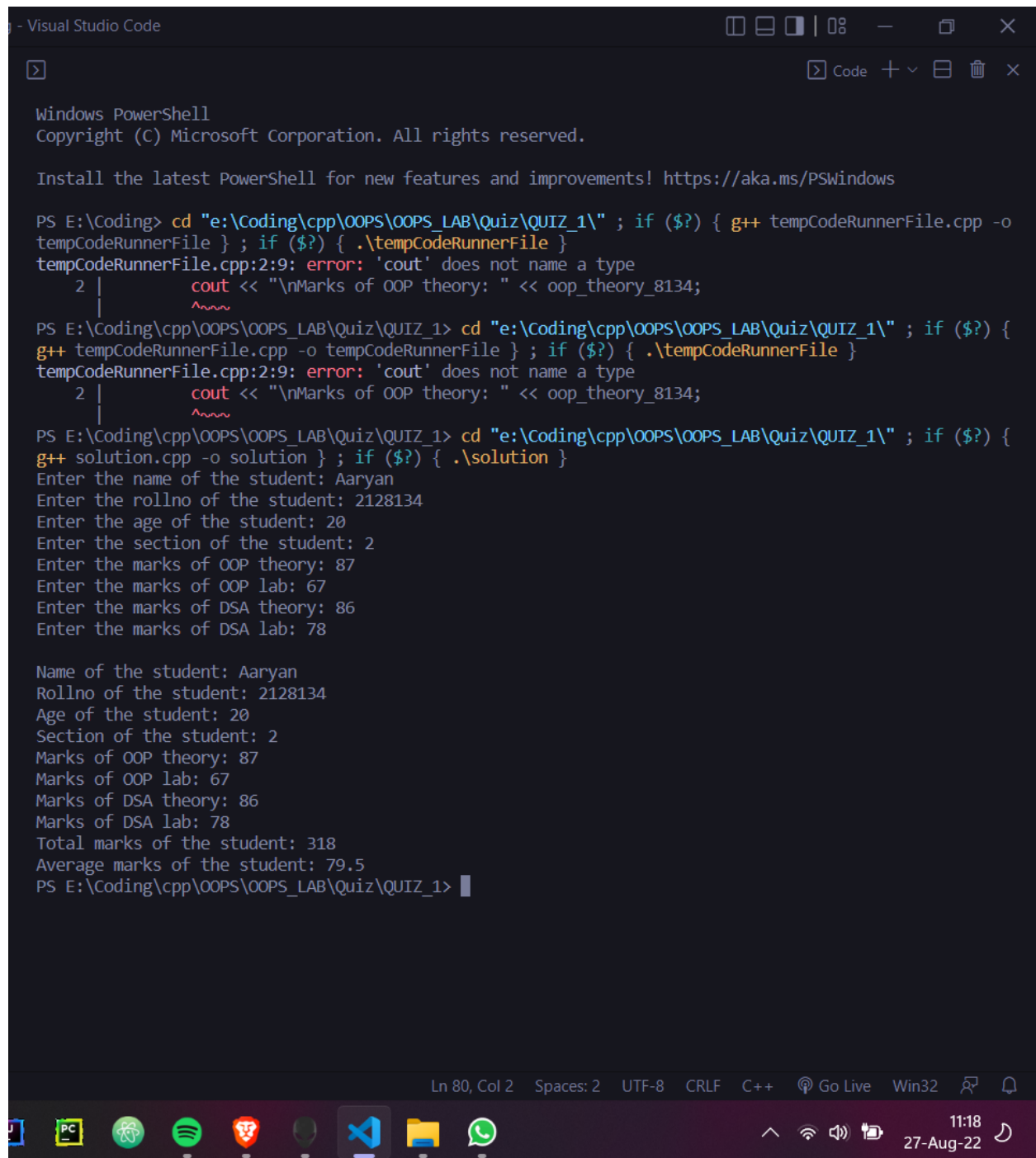
public:
    void get_marks(){
        cout << "Enter the marks of OOP theory: ";
        cin >> oop_theory_8134;
        cout << "Enter the marks of OOP lab: ";
        cin >> oop_lab_8134;
        cout << "Enter the marks of DSA theory: ";
        cin >> dsa_theory_8134;
        cout << "Enter the marks of DSA lab: ";
        cin >> dsa_lab_8134;
    }
    void display_marks(){
        cout << "\nMarks of OOP theory: " << oop_theory_8134;
        cout << "\nMarks of OOP lab: " << oop_lab_8134;
        cout << "\nMarks of DSA theory: " << dsa_theory_8134;
        cout << "\nMarks of DSA lab: " << dsa_lab_8134;
    }

    int total_marks(){
        return oop_theory_8134 + oop_lab_8134 + dsa_theory_8134 +
dsa_lab_8134;
    }
    float average_marks(){
        return (float)(oop_theory_8134 + oop_lab_8134 + dsa_theory_8134 +
dsa_lab_8134) / 4;
    }
} m;

int main(){
    s.get_data();
    m.get_marks();
    s.display_data();
    m.display_marks();
    cout << "\nTotal marks of the student: " << m.total_marks();
    cout << "\nAverage marks of the student: " << m.average_marks();
}

```

OUTPUT SS:



```
Visual Studio Code
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS E:\Coding> cd "e:\Coding\cpp\OOPS\OOPS_LAB\Quiz\QUIZ_1\" ; if ($?) { g++ tempCodeRunnerFile.cpp -o
tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }
tempCodeRunnerFile.cpp:2:9: error: 'cout' does not name a type
  2 |         cout << "\nMarks of OOP theory: " << oop_theory_8134;
    |         ^~~~~
PS E:\Coding\cpp\OOPS\OOPS_LAB\Quiz\QUIZ_1> cd "e:\Coding\cpp\OOPS\OOPS_LAB\Quiz\QUIZ_1\" ; if ($?) {
g++ tempCodeRunnerFile.cpp -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }
tempCodeRunnerFile.cpp:2:9: error: 'cout' does not name a type
  2 |         cout << "\nMarks of OOP theory: " << oop_theory_8134;
    |         ^~~~~
PS E:\Coding\cpp\OOPS\OOPS_LAB\Quiz\QUIZ_1> cd "e:\Coding\cpp\OOPS\OOPS_LAB\Quiz\QUIZ_1\" ; if ($?) {
g++ solution.cpp -o solution } ; if ($?) { .\solution }
Enter the name of the student: Aaryan
Enter the rollno of the student: 2128134
Enter the age of the student: 20
Enter the section of the student: 2
Enter the marks of OOP theory: 87
Enter the marks of OOP lab: 67
Enter the marks of DSA theory: 86
Enter the marks of DSA lab: 78

Name of the student: Aaryan
Rollno of the student: 2128134
Age of the student: 20
Section of the student: 2
Marks of OOP theory: 87
Marks of OOP lab: 67
Marks of DSA theory: 86
Marks of DSA lab: 78
Total marks of the student: 318
Average marks of the student: 79.5
PS E:\Coding\cpp\OOPS\OOPS_LAB\Quiz\QUIZ_1>
```

Ln 80, Col 2 Spaces: 2 UTF-8 CRLF C++ Go Live Win32 11:18 27-Aug-22

QUIZ-1 OOPs LAB

AARYAN KUMAR

CSSE-2

CODE FROM IDE:

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

class student{
private:
    string name_8134;
    int rollno_8134;
    int age_8134;
    string section_8134;

public:
    void get_data(){
        cout << "Name of the student: ";
        cin >> name_8134;
        cout << "Rollno of the student: ";
        cin >> rollno_8134;
        cout << "Age of the student: ";
        cin >> age_8134;
        cout << "Section of the student: ";
        cin >> section_8134;
    }

    void display_data(){
        cout << "\nName of the student: " << name_8134;
        cout << "\nRollno of the student: " << rollno_8134 ;
        cout << "\nAge of the student: " << age_8134;
        cout << "\nSection of the student: " << section_8134;
    }
} s;

class mark{
private:
```

```

    int oop_theory_8134;
    int oop_lab_8134;
    int dsa_theory_8134;
    int dsa_lab_8134;

public:
    void get_marks(){
        cout << "Enter the marks of OOP theory: ";
        cin >> oop_theory_8134;
        cout << "Enter the marks of OOP lab: ";
        cin >> oop_lab_8134;
        cout << "Enter the marks of DSA theory: ";
        cin >> dsa_theory_8134;
        cout << "Enter the marks of DSA lab: ";
        cin >> dsa_lab_8134;
    }
    void display_marks(){
        cout << "\nMarks of OOP theory: " << oop_theory_8134;
        cout << "\nMarks of OOP lab: " << oop_lab_8134;
        cout << "\nMarks of DSA theory: " << dsa_theory_8134;
        cout << "\nMarks of DSA lab: " << dsa_lab_8134;
    }

    int total_marks(){
        return oop_theory_8134 + oop_lab_8134 + dsa_theory_8134 +
dsa_lab_8134;
    }
    float average_marks(){
        return (float)(oop_theory_8134 + oop_lab_8134 + dsa_theory_8134 +
dsa_lab_8134) / 4;
    }
} m;

int main(){
    s.get_data();
    m.get_marks();
    s.display_data();
    m.display_marks();
    cout << "\nTotal marks of the student: " << m.total_marks();
    cout << "\nAverage marks of the student: " << m.average_marks();
}

```

```

Windows PowerShell
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PS E:\Coding> cd "e:\Coding\cpp\OOPS\OOPS_LAB\Quiz\QUIZ_1\" ; if ($?) { g++ tempCodeRunnerFile.cpp -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }
tempCodeRunnerFile.cpp:2:9: error: 'cout' does not name a type
  2 |         cout << "\nMarks of OOP theory: " << oop_theory_8134;
    |         ~~~~
PS E:\Coding\cpp\OOPS\OOPS_LAB\Quiz\QUIZ_1> cd "e:\Coding\cpp\OOPS\OOPS_LAB\Quiz\QUIZ_1\" ; if ($?) { g++ tempCodeRunnerFile.cpp -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }
tempCodeRunnerFile.cpp:2:9: error: 'cout' does not name a type
  2 |         cout << "\nMarks of OOP theory: " << oop_theory_8134;
    |         ~~~~
PS E:\Coding\cpp\OOPS\OOPS_LAB\Quiz\QUIZ_1> cd "e:\Coding\cpp\OOPS\OOPS_LAB\Quiz\QUIZ_1\" ; if ($?) { g++ solution.cpp -o solution } ; if ($?) { .\solution }
Enter the name of the student: Aaryan
Enter the rollno of the student: 2128134
Enter the age of the student: 20
Enter the section of the student: 2
Enter the marks of OOP theory: 87
Enter the marks of OOP lab: 67
Enter the marks of DSA theory: 86
Enter the marks of DSA lab: 78

Name of the student: Aaryan
Rollno of the student: 2128134
Age of the student: 20
Section of the student: 2
Marks of OOP theory: 87
Marks of OOP lab: 67
Marks of DSA theory: 86
Marks of DSA lab: 78
Total marks of the student: 318
Average marks of the student: 79.5
PS E:\Coding\cpp\OOPS\OOPS_LAB\Quiz\QUIZ_1>

```

AARYAN KUMAR
CSSE-2
OOPs LAB VIVA 1

CODE FROM IDE:

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

class DateTime
{
    int day_8134;
    int month_8134;
    int year_8134;
    int hour_8134;
    int minute_8134;
    int second_8134;

public:
    void get_data()
    {
        cout << "Enter the day: ";
        cin >> day_8134;
        cout << "Enter the month: ";
        cin >> month_8134;
        cout << "Enter the year: ";
        cin >> year_8134;
        cout << "Enter the hour: ";
        cin >> hour_8134;
        cout << "Enter the minute: ";
        cin >> minute_8134;
        cout << "Enter the second: ";
        cin >> second_8134;
    }

    void advance_day(int d_8134, int h_8134, int m_8134, int s_8134)
    {
        day_8134 += d_8134;
```

```

        hour_8134 += h_8134;
        minute_8134 += m_8134;
        second_8134 += s_8134;
    }

    void reset_data()
    {
        day_8134 = 1;
        month_8134 = 1;
        year_8134 = 2056;
        hour_8134 = 0;
        minute_8134 = 0;
        second_8134 = 0;
    }

    void display_date_time()
    {
        cout << " Day: " << day_8134
              << " Month: " << month_8134
              << " Year: " << year_8134
              << " Hour: " << hour_8134
              << " Minute: " << minute_8134
              << " Second: " << second_8134 << "\n";
    }

    void add_date_time(DateTime dt1, DateTime dt2)
    {
        day_8134 = dt1.day_8134 + dt2.day_8134;
        month_8134 = dt1.month_8134 + dt2.month_8134;
        year_8134 = dt1.year_8134 + dt2.year_8134;
        hour_8134 = dt1.hour_8134 + dt2.hour_8134;
        minute_8134 = dt1.minute_8134 + dt2.minute_8134;
        second_8134 = dt1.second_8134 + dt2.second_8134;
    }
};

int main()
{
    DateTime dt1, dt2;

```



```

dt1.get_data();
dt2.get_data();
dt1.display_date_time();
dt2.display_date_time();
dt1.advance_day(1, 2, 3, 4);
dt1.display_date_time();
cout << "\n Resetting to initial date and time:";
dt2.reset_data();
dt2.display_date_time();
cout << "\n";
cout << "Adding these two we get:";
dt1.add_date_time(dt1, dt2);
dt1.display_date_time();
}

```

OUTPUT:

```

PS E:\Coding\cpp\OOPS\OOPS_LAB\Quiz\VIVA1> cd "e:\Coding\cpp\OOPS\OOPS_LAB\Quiz\VIVA1\" ; if ($?) { g++ written.cpp -
o written } ; if ($?) { .\written }
Enter the day: 2
Enter the month: 3
Enter the year: 2022
Enter the hour: 3
Enter the minute: 4
Enter the second: 5
Enter the day: 21
Enter the month: 5
Enter the year: 2025
Enter the hour: 4
Enter the minute: 5
Enter the second: 7
Day: 2 Month: 3 Year: 2022 Hour: 3 Minute: 4 Second: 5
Day: 21 Month: 5 Year: 2025 Hour: 4 Minute: 5 Second: 7
Day: 3 Month: 3 Year: 2022 Hour: 5 Minute: 7 Second: 9

Resetting to initial date and time: Day: 1 Month: 1 Year: 2056 Hour: 0 Minute: 0 Second: 0

Adding these two we get: Day: 4 Month: 4 Year: 4078 Hour: 5 Minute: 7 Second: 9
PS E:\Coding\cpp\OOPS\OOPS_LAB\Quiz\VIVA1>

```

Ln 57, Col 48 Spaces: 2 UTF-8 CRLF C++ Go Live Win32 12:27 27-Aug-22

QUIZ-1 OOPs LAB

AARYAN KUMAR

CSSE-2

CODE FROM IDE:

```
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using namespace std;

class student{
private:
    string name_8134;
    int rollno_8134;
    int age_8134;
    string section_8134;

public:
    void get_data(){
        cout << "Name of the student: ";
        cin >> name_8134;
        cout << "Rollno of the student: ";
        cin >> rollno_8134;
        cout << "Age of the student: ";
        cin >> age_8134;
        cout << "Section of the student: ";
        cin >> section_8134;
    }

    void display_data(){
        cout << "\nName of the student: " << name_8134;
        cout << "\nRollno of the student: " << rollno_8134 ;
        cout << "\nAge of the student: " << age_8134;
        cout << "\nSection of the student: " << section_8134;
    }
} s;

class mark{
private:
```

```

    int oop_theory_8134;
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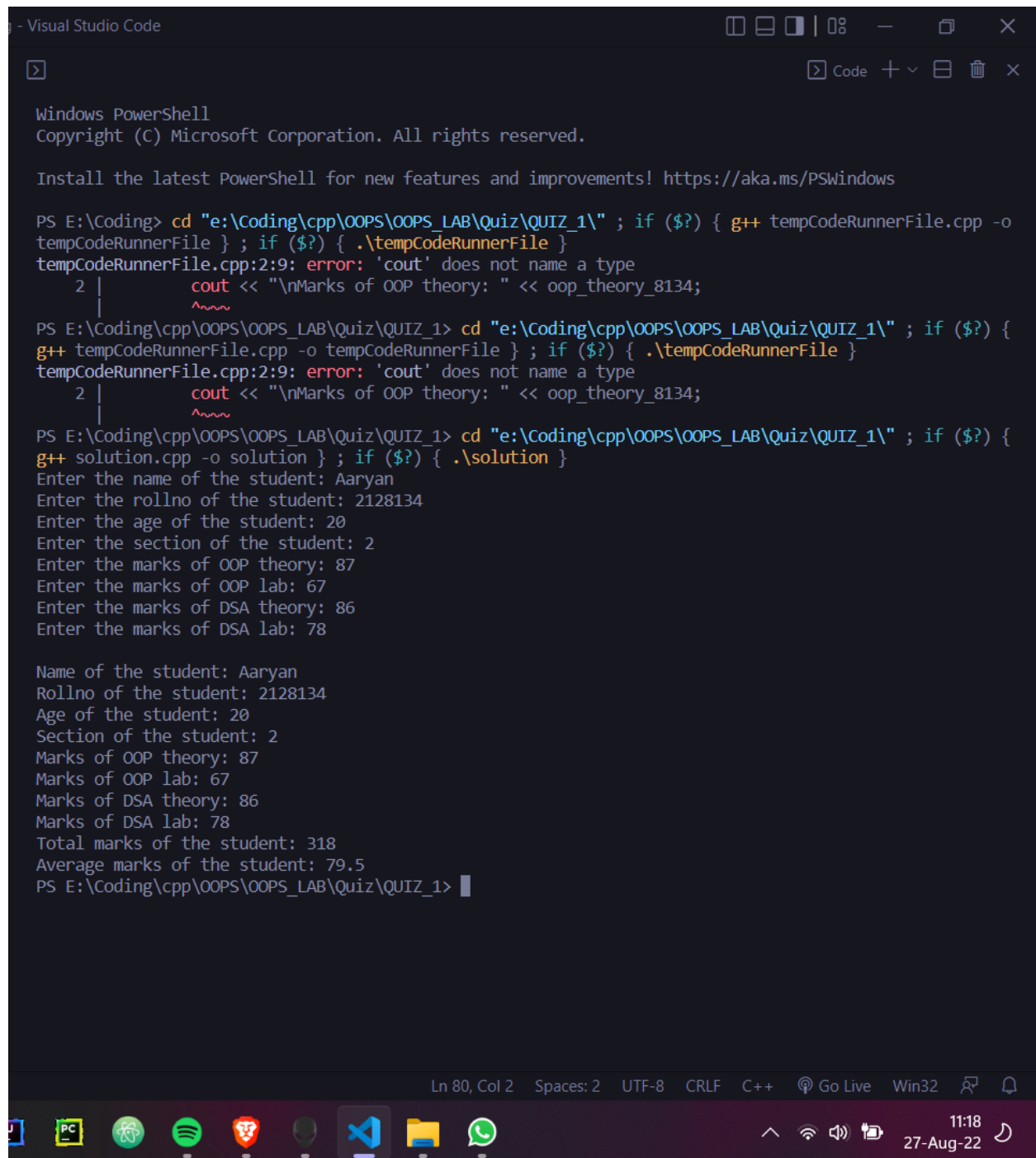
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    void get_marks(){
        cout << "Enter the marks of OOP theory: ";
        cin >> oop_theory_8134;
        cout << "Enter the marks of OOP lab: ";
        cin >> oop_lab_8134;
        cout << "Enter the marks of DSA theory: ";
        cin >> dsa_theory_8134;
        cout << "Enter the marks of DSA lab: ";
        cin >> dsa_lab_8134;
    }
    void display_marks(){
        cout << "\nMarks of OOP theory: " << oop_theory_8134;
        cout << "\nMarks of OOP lab: " << oop_lab_8134;
        cout << "\nMarks of DSA theory: " << dsa_theory_8134;
        cout << "\nMarks of DSA lab: " << dsa_lab_8134;
    }

    int total_marks(){
        return oop_theory_8134 + oop_lab_8134 + dsa_theory_8134 +
dsa_lab_8134;
    }
    float average_marks(){
        return (float)(oop_theory_8134 + oop_lab_8134 + dsa_theory_8134 +
dsa_lab_8134) / 4;
    }
} m;

int main(){
    s.get_data();
    m.get_marks();
    s.display_data();
    m.display_marks();
    cout << "\nTotal marks of the student: " << m.total_marks();
    cout << "\nAverage marks of the student: " << m.average_marks();
}

```

OUTPUT SS:



```
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Windows PowerShell
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g++ solution.cpp -o solution } ; if ($?) { .\solution }
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Name of the student: Aaryan
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Total marks of the student: 318
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```

Ln 80, Col 2 Spaces: 2 UTF-8 CRLF C++ Go Live Win32 11:18 27-Aug-22

AARYAN KUMAR
CSSE-2
OOPs LAB VIVA 1

CODE FROM IDE:

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

class DateTime
{
    int day_8134;
    int month_8134;
    int year_8134;
    int hour_8134;
    int minute_8134;
    int second_8134;

public:
    void get_data()
    {
        cout << "Enter the day: ";
        cin >> day_8134;
        cout << "Enter the month: ";
        cin >> month_8134;
        cout << "Enter the year: ";
        cin >> year_8134;
        cout << "Enter the hour: ";
        cin >> hour_8134;
        cout << "Enter the minute: ";
        cin >> minute_8134;
        cout << "Enter the second: ";
        cin >> second_8134;
    }

    void advance_day(int d_8134, int h_8134, int m_8134, int s_8134)
    {
        day_8134 += d_8134;
```

```

        hour_8134 += h_8134;
        minute_8134 += m_8134;
        second_8134 += s_8134;
    }

    void reset_data()
    {
        day_8134 = 1;
        month_8134 = 1;
        year_8134 = 2056;
        hour_8134 = 0;
        minute_8134 = 0;
        second_8134 = 0;
    }

    void display_date_time()
    {
        cout << " Day: " << day_8134
              << " Month: " << month_8134
              << " Year: " << year_8134
              << " Hour: " << hour_8134
              << " Minute: " << minute_8134
              << " Second: " << second_8134 << "\n";
    }

    void add_date_time(DateTime dt1, DateTime dt2)
    {
        day_8134 = dt1.day_8134 + dt2.day_8134;
        month_8134 = dt1.month_8134 + dt2.month_8134;
        year_8134 = dt1.year_8134 + dt2.year_8134;
        hour_8134 = dt1.hour_8134 + dt2.hour_8134;
        minute_8134 = dt1.minute_8134 + dt2.minute_8134;
        second_8134 = dt1.second_8134 + dt2.second_8134;
    }
};

int main()
{
    DateTime dt1, dt2;

```

```

dt1.get_data();
dt2.get_data();
dt1.display_date_time();
dt2.display_date_time();
dt1.advance_day(1, 2, 3, 4);
dt1.display_date_time();
cout << "\n Resetting to initial date and time:";
dt2.reset_data();
dt2.display_date_time();
cout << "\n";
cout << "Adding these two we get:";
dt1.add_date_time(dt1, dt2);
dt1.display_date_time();
}

```

OUTPUT:

```

PS E:\Coding\cpp\OOPS\OOPS_LAB\Quiz\VIVA1> cd "e:\Coding\cpp\OOPS\OOPS_LAB\Quiz\VIVA1\" ; if ($?) { g++ written.cpp -
o written } ; if ($?) { .\written }
Enter the day: 2
Enter the month: 3
Enter the year: 2022
Enter the hour: 3
Enter the minute: 4
Enter the second: 5
Enter the day: 21
Enter the month: 5
Enter the year: 2025
Enter the hour: 4
Enter the minute: 5
Enter the second: 7
Day: 2 Month: 3 Year: 2022 Hour: 3 Minute: 4 Second: 5
Day: 21 Month: 5 Year: 2025 Hour: 4 Minute: 5 Second: 7
Day: 3 Month: 3 Year: 2022 Hour: 5 Minute: 7 Second: 9

Resetting to initial date and time: Day: 1 Month: 1 Year: 2056 Hour: 0 Minute: 0 Second: 0

Adding these two we get: Day: 4 Month: 4 Year: 4078 Hour: 5 Minute: 7 Second: 9
PS E:\Coding\cpp\OOPS\OOPS_LAB\Quiz\VIVA1>

```

Ln 57, Col 48 Spaces: 2 UTF-8 CRLF C++ Go Live Win32 12:27 27-Aug-22