

Lab Task # 1

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Program : BSAI

Q 1: Write a program that inputs age in years and displays age in months and days.

Ans.

The screenshot shows the Visual Studio Code interface with a C++ program named 'programing.cpp' open. The program calculates age in months and days based on input years. The code is as follows:

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int ageYears;
6     cout << "Your age in years: ";
7     cin >> ageYears;
8     int ageDays = int(ageYears * 365.25);
9     cout << "Your age in days: " << ageDays << endl;
10    return 0;
11 }
```

The terminal output shows the program execution with input 9 years, resulting in 3287 days.

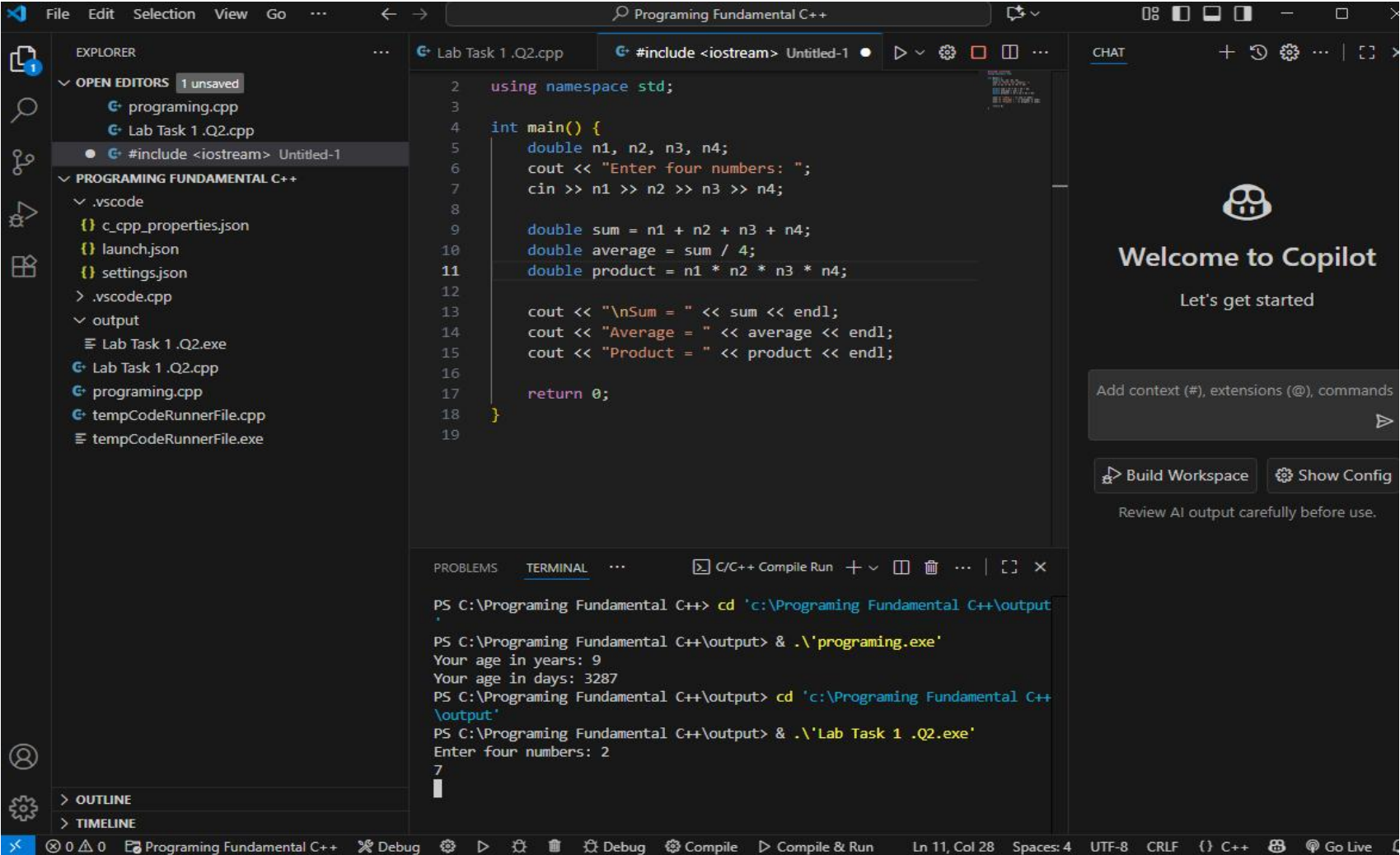
```
PS C:\Programing Fundamental C++> cd 'c:\Programing Fundamental C++\output'
PS C:\Programing Fundamental C++\output> & .\programing.exe
Your age in years: 9
Your age in days: 3287
PS C:\Programing Fundamental C++\output>
```

The interface also shows the Explorer view with files like 'c_cpp_properties.json', 'launch.json', 'settings.json', and 'output'. The Chat panel on the right displays the 'Welcome to Copilot' message.

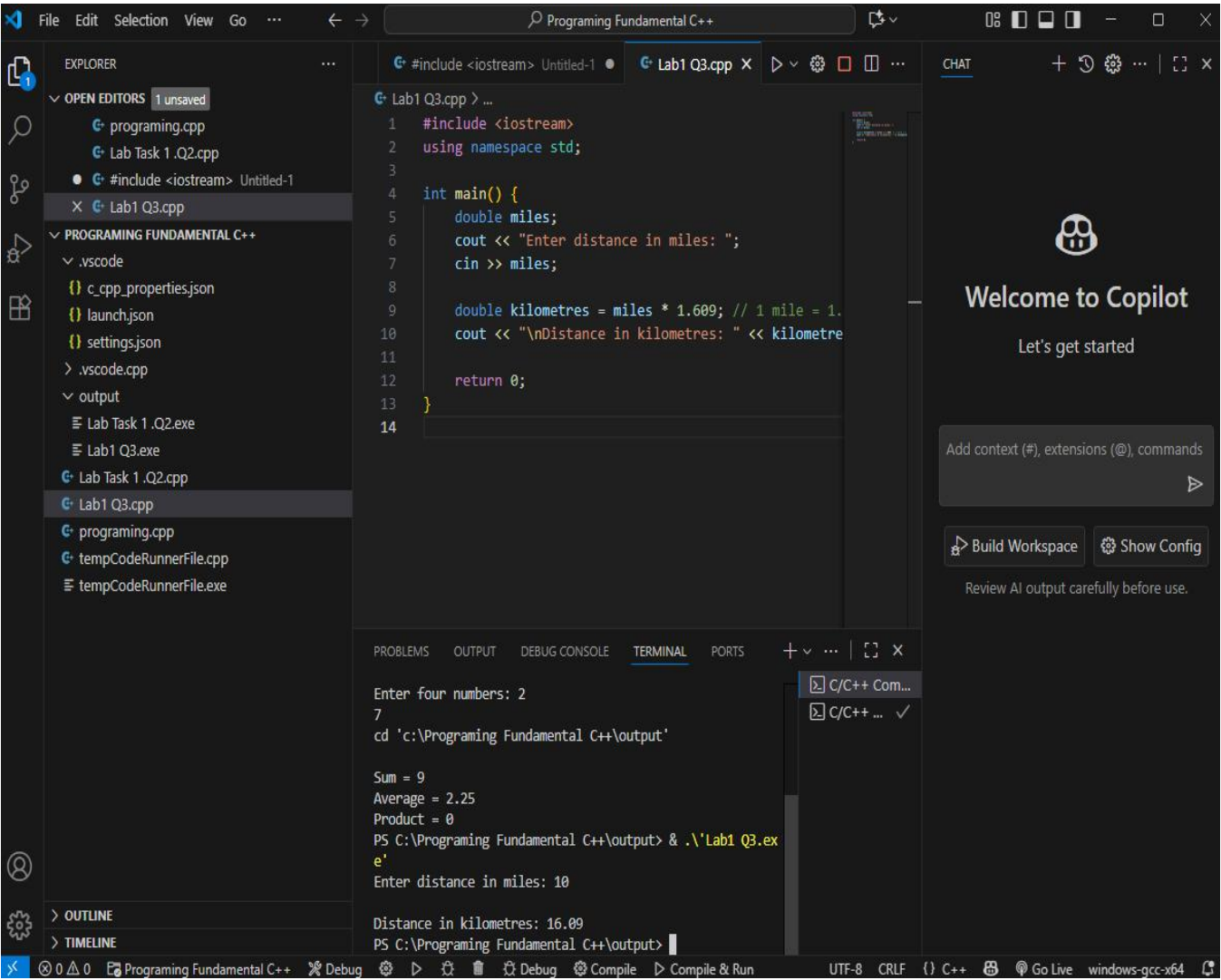
Q # 2: Write a program that inputs 4 numbers and calculates the sum, average, and product of all the numbers.

Ans.

Double is a C++ data type use to store decimels like 10.4,5.6,etc.This reason used Double.



Q # 3: Write a program that inputs miles from the user and convert miles into kilometres. One mile is equal to 1.069 kilometre.
Ans.



Q # 4: Write a program that inputs total number of students in a class and fee per student. It displays total fee collected from the class.
Ans.

File Edit Selection View Go

Programing Fundamental C++

CHAT

EXPLORER

OPEN EDITORS

programing.cpp

PROGRAMING FUNDAMENTAL C++

.vscode

c_cpp_properties.json

launch.json

settings.json

.vscode.cpp

output

Lab Task 1.Q2.exe

Lab1 Q3.exe

programing.exe

Lab Task 1.Q2.cpp

Lab1 Q3.cpp

programing.cpp

tempCodeRunnerFile.cpp

tempCodeRunnerFile.exe

programing.cpp

main()

3

4 int main() {

5 int totalStudents;

6 double feePerStudent;

7

8 cout << "Enter total number of students: ";

9 cin >> totalStudents;

10

11 cout << "Enter fee per student: ";

12 cin >> feePerStudent;

13

14 double totalFee = totalStudents * feePerStudent;

15

16 cout << "\nTotal fee collected from the class = "

17

18 return 0;

19 }

20

WELCOME TO COPILLOT

Let's get started

Add context (#), extensions (@), commands

Build Workspace

Show Config

Review AI output carefully before use.

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

+

...

|

...

×

e'

Enter distance in miles: 10

Distance in kilometres: 16.09

PS C:\Programing Fundamental C++\output> cd 'c:\Programing Fundamental C++\output'

PS C:\Programing Fundamental C++\output> & .\programing.exe

Enter total number of students: 25

Enter fee per student: 2500

Total fee collected from the class = 62500

PS C:\Programing Fundamental C++\output>

0 0 0

Programing Fundamental C++

Debug

Debug

Compile

Compile & Run

UTF-8

CRLF

{}

C++

Go Live

windows-gcc-x64