

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a workspace structure with folders like 'UNTITLED (WORKSPACE)', 'python', 'vscode', and 'fakhir'. Inside 'fakhir', there are several C++ files (1.cpp, 2.cpp, 3.cpp, 4.cpp) and their corresponding executables (1.exe, 2.exe, 3.exe, 4.exe). A terminal window at the bottom shows the command to run the code and its execution output.

```
#include <iostream>
using namespace std;
int main() {
    cout<<"SAP_ID: 72990"<<endl<<"Name: Fakhir Ashar Chaudhry"<<endl;
    int t_std,fee,t_fee;
    cout<<"Enter total number of students in class:"<<endl;
    cin>>t_std;
    cout<<"Enter fee of a single student in PKR:"<<endl;
    cin>>fee;
    t_fee=fee*t_std;
    cout<<"Total fee collected from a class = "<<t_fee<<" PKR"<<endl;
    return 0;
}
```

```
PS F:\.vscode\c++> & 'c:\Users\user\.vscode\extensions\ms-  
Launcher.exe' '--stdin=Microsoft-MIEngine-In-5sbhjmj2.jfx'  
oft-MIEngine-Error-jsdeu2yy.umf' '--pid=Microsoft-MIEngine-  
terpreter=mi'  
SAP_ID: 72990  
Name: Fakhir Ashar Chaudhry  
Enter total number of students in class:  
50  
Enter fee of a single student in PKR:  
90000  
Total fee collected from a class = 4500000 PKR  
PS F:\.vscode\c++>
```


The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, ...
- Title Bar:** Untitled (Workspace)
- Explorer View:** Shows the workspace structure:
 - UNTITLED (WORKSPACE)
 - python
 - C++
 - vscode
 - fakhir
 - 1.cpp
 - 1.exe
 - 2.cpp
 - 2.exe
 - 3.cpp
 - 3.exe
 - 4.cpp
 - 4.exe
 - i252560_DS-A
 - i252560 DSA
 - q1.cpp
 - q1.exe
 - q2.cpp
 - q2.exe
 - q3.cpp
 - q3.exe
 - q4.cpp
 - q4.exe
 - q5.txt
 - q6.txt
 - q7.txt
 - Terminal View:** Shows the command line output of the program execution.
 - Status Bar:** Ln 13, Col 2 | Spaces: 4 | UTF-8 | CRLF | {} | C++ | Win32

```
PS F:\.vscode\c++> & 'c:\Users\user\.vscode\extensions\ms-vscode\
sDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-yfryob2s.rkp
tderr=Microsoft-MIEngine-Error-lqjogdzy.2rh' '--pid=Microsoft-M
bin\gdb.exe' '--interpreter=mi'
SAP_ID: 72990
Name: Fakhir Ashar Chaudhry
Enter your age in years:
18
Age in months = 216 months
Age in days = 6570 days
PS F:\.vscode\c++>
```

The screenshot shows the Visual Studio Code interface with a dark theme. The Explorer sidebar on the left lists several projects and files:

- UNTITLED (WORKSPACE)
 - python
 - C++
 - vscode
 - fakhir
 - 1.cpp
 - 1.exe
 - 2.cpp
 - 2.exe
 - 3.cpp
 - 3.exe
 - 4.cpp
 - 4.exe
 - i252560_DS-A
 - q1.cpp
 - q1.exe
 - q2.cpp
 - q2.exe
 - q3.cpp
 - q3.exe
 - q4.cpp
 - q4.exe
 - q5.txt
 - q6.txt
 - q7.txt
 - i252560 DSA

The main editor area displays the contents of file 4.cpp:

```
#include <iostream>
using namespace std;
int main() {
    cout<<"SAP_ID: 72990"<<endl<<"Name: Fakhir Ashar Chaudhry"<<endl;
    double miles,km;
    cout<<"Enter distance in miles:"<<endl;
    cin>>miles;
    km=miles*1.069;
    cout<<"Kilometres="<<km<<" Km"<<endl;
    return 0;
}
```

The status bar at the bottom indicates the current file is 4.cpp, and the build status shows "C/C++: g++:exe build and debug active file (c++)".

```
PS F:\.vscode\c++> & 'c:\Users\user\.vscode\extensions\ms-vscode\
sDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-pogxm2my.iv3'
tderr=Microsoft-MIEngine-Error-msfnc23n.tj4' '--pid=Microsoft-MIE
bin\gdb.exe' '--interpreter=mi'
SAP_ID: 72990
Name: Fakhir Ashar Chaudhry
Enter distance in miles:
30
Kilometres=32.07 Km
PS F:\.vscode\c++> 
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure under "UNTITLED (WORKSPACE)". It includes a folder "fakhir" containing files 1.cpp, 2.cpp, 3.cpp, and 4.cpp, each with an .exe file (1.exe, 2.exe, 3.exe, 4.exe). There's also a folder "i252560_DSA" with files q1.cpp, q1.exe, q2.cpp, q2.exe, q3.cpp, q3.exe, q4.cpp, q4.exe, q5.txt, q6.txt, and q7.txt.
- Code Editor (Center):** Displays the content of the file "3.cpp". The code is as follows:

```
#include <iostream>
using namespace std;
int main() {
    cout<<"SAP_ID: 72990"<<endl<<"Name: Fakhir Ashar Chaudhry"<<endl;
    double a,b,c,d,sum,prod,avg;
    cout<<"Enter 4 numbers:"<<endl;
    cin>>a>>b>>c>>d;
    sum=a+b+c+d;
    prod=a*b*c*d;
    avg=sum/4;
    cout<<"Sum="<<sum<<endl;
    cout<<"Product="<<prod<<endl;
    cout<<"Average="<<avg<<endl;
}
return 0;
```

- Terminal (Bottom):** Shows the command run in the terminal: "PS F:\.vscode\c++> & 'c:\Users\user\.vscode\extensions\ms-vscode\Launcher.exe' '--stdin=Microsoft-MIEngine-In-uevsmnco.2xy' '--soft-MIEngine-Error-dxi2pup4.vwf' '--pid=Microsoft-MIEngine-Interpreter=mi'. The output of the program is displayed below the command.

```
PS F:\.vscode\c++> & 'c:\Users\user\.vscode\extensions\ms-vscode\Launcher.exe' '--stdin=Microsoft-MIEngine-In-uevsmnco.2xy' '--soft-MIEngine-Error-dxi2pup4.vwf' '--pid=Microsoft-MIEngine-Interpreter=mi'
SAP_ID: 72990
Name: Fakhir Ashar Chaudhry
Enter 4 numbers:
12
20
3
5
Sum=40
Product=3600
Average=10
PS F:\.vscode\c++> 
```