

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a file tree under 'UNTITLED (WORKSPACE)'. The Editor pane in the center contains a C++ code snippet for calculating the volume of a cube. The Terminal pane at the bottom shows the execution of the program and its output.

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"SAP_ID: 72990"\
```

```
PS F:\.vscode\c++> & 'c:\Users\user\.vscode\extensions\ms-vscode\
Launcher.exe' '--stdin=Microsoft-MIEngine-In-bkxufxgp.dag' '--soft-MIEngine-Error-c0oy10i1.4tg' '--pid=Microsoft-MIEngine-Pid-terpreter=mi'
SAP_ID: 72990
Name: Fakhir Ashar Chaudhry
Enter length of cube:
3
Enter height of cube:
3
Enter width of cube:
3
Volume of cube is:27
PS F:\.vscode\c++> []
```

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left lists a workspace named 'UNTITLED (WORKSPACE)' containing several projects and files. Projects include 'python', 'C++', 'vscode', and 'fakhir'. The 'fakhir' project contains files 1.cpp through 7.cpp, each with a blue 'C++' icon. It also includes executables 1.exe through 6.exe and 7.exe. A folder 'i252560_DS-A' contains files labtask1.cpp through labtask5.cpp. A folder 'i252560_DSA' contains a file a1.cmn. Below the Explorer is the 'OUTLINE' and 'TIMELINE' view. The main editor area displays the content of 7.cpp, which is a C++ program that prompts for SAP ID, name, and five subjects, then calculates and prints the percentage. The status bar at the bottom shows the current line (Ln 9), column (Col 12), spaces (Spaces: 4), encoding (UTF-8), and file type (C++). The terminal window at the bottom shows the execution of the program and its output.

```
PS F:\.vscode\c++> & 'c:\Users\user\.vscode\extensions\ms-vscode.cpptools\2023.10.1\bin\Debug\c_cpp_debug_launcher.exe' '--stdin=Microsoft-MIEngine-In-xdtzqjtderr=Microsoft-MIEngine-Error-hxbwgioj.w3i' '--pid=Microsoft-MIEngine-Error-hxbwgioj.w3i' '--interpreter=mi'
SAP_ID: 72990
Name: Fakhir Ashar Chaudhry
Enter total marks:
500
Enter obtained marks of 5 subjects:
100
90
80
95
89
Percentage=90.8
PS F:\.vscode\c++>
```

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

- File Explorer:** Shows the workspace structure under "UNTITLED (WORKSPACE)". It includes folders for "python", "c++", ".vscode", and a folder named "fakhir". Inside "fakhir", there are files 1.cpp, 2.cpp, 2.exe, 3.cpp, 3.exe, 4.cpp, 4.exe, 5.cpp, 5.exe, 6.cpp, and 6.exe. There are also subfolders "i252560_DS-A" and "i252560_DSA" containing their respective files.
- Editor:** The main editor area displays the content of "5.cpp". The code is as follows:

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"SAP_ID: 72990"=><endl=><>Name: Fakhir Ashar Chaudhry"=<endl>;
    double f,c;
    cout<<"Enter temperature in Farenheit:"=<endl>;
    cin>>f;
    c=(5.0/9)*(f-32);
    cout<<"Temperature in Celsius:"=<<c;
    return 0;
}
```

- Status Bar:** Shows file statistics: Ln 10, Col 43, Spaces: 4, UTF-8, CRLF, and file paths: C/C++: g++.exe build and debug active file (c++) and C/C++: g++.exe.

```
PS F:\.vscode\c++> & 'c:\Users\user\.vscode\extensions\msDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-xnazuntderr=Microsoft-MIEngine-Error-b2ckhkty.hmz' '--pid=Microbin\gdb.exe' '--interpreter=mi'
SAP_ID: 72990
Name: Fakhir Ashar Chaudhry
Enter temperature in Farenheit:
100
Temperature in Celsius:37.7778
PS F:\.vscode\c++>
```

