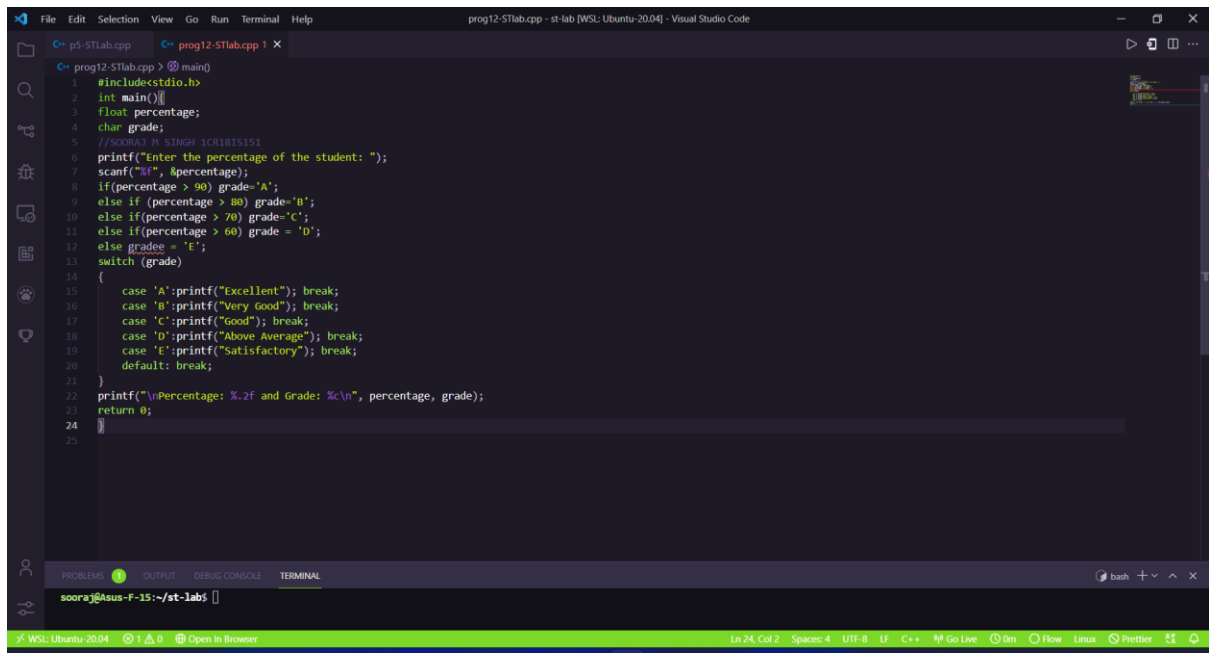


Absolute Letter Grading Procedure:

Program:

```
#include<stdio.h>
int main(){
float percentage;
char grade;
//SOORAJ M SINGH 1CR18IS151
printf("Enter the percentage of the student: ");
scanf("%f", &percentage);
if(percentage > 90) grade='A';
else if(percentage > 80) grade='B';
else if(percentage > 70) grade='C';
else if(percentage > 60) grade = 'D';
else grade = 'E';
switch (grade)
{
    case 'A':printf("Excellent"); break;
    case 'B':printf("Very Good"); break;
    case 'C':printf("Good"); break;
    case 'D':printf("Above Average"); break;
    case 'E':printf("Satisfactory"); break;
    default: break;
}
printf("\nPercentage: %.2f and Grade: %c\n", percentage, grade);
return 0;
}
```

Program Screenshot:

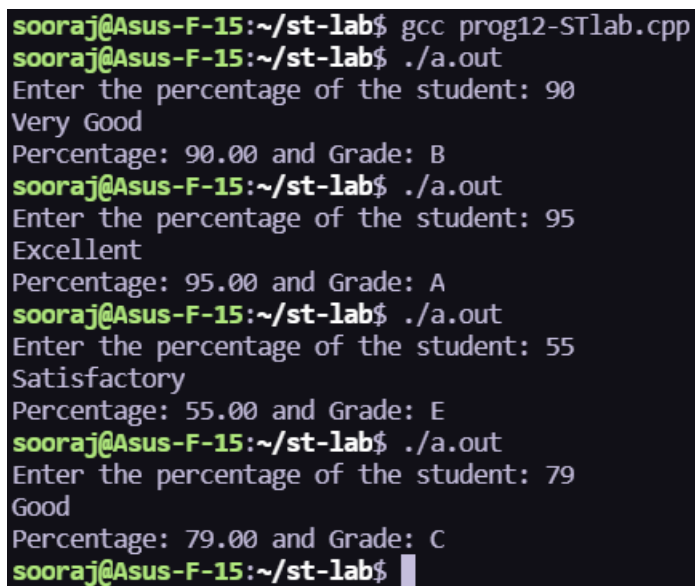


The screenshot shows the Visual Studio Code editor with a C++ file named `prog12-STlab.cpp`. The code is as follows:

```
1 #include<stdio.h>
2 int main(){
3     float percentage;
4     char grade;
5     //SOORAJ M SINGH 1CR1815151
6     printf("Enter the percentage of the student: ");
7     scanf("%f", &percentage);
8     if (percentage > 90) grade='A';
9     else if (percentage > 80) grade='B';
10    else if (percentage > 70) grade='C';
11    else if (percentage > 60) grade='D';
12    else grade='E';
13    switch (grade)
14    {
15        case 'A':printf("Excellent"); break;
16        case 'B':printf("Very Good"); break;
17        case 'C':printf("Good"); break;
18        case 'D':printf("Above Average"); break;
19        case 'E':printf("Satisfactory"); break;
20        default: break;
21    }
22    printf("\nPercentage: %.2f and Grade: %c\n", percentage, grade);
23    return 0;
24 }
```

The bottom panel shows the terminal with the command `sooraj@Asus-F-15:~/st-lab$` and the output of the program.

Output Screenshot:



The screenshot shows the terminal output of the C++ program. The user enters the percentage of the student, and the program outputs the corresponding grade and the percentage formatted to two decimal places.

```
sooraj@Asus-F-15:~/st-lab$ gcc prog12-STlab.cpp
sooraj@Asus-F-15:~/st-lab$ ./a.out
Enter the percentage of the student: 90
Very Good
Percentage: 90.00 and Grade: B
sooraj@Asus-F-15:~/st-lab$ ./a.out
Enter the percentage of the student: 95
Excellent
Percentage: 95.00 and Grade: A
sooraj@Asus-F-15:~/st-lab$ ./a.out
Enter the percentage of the student: 55
Satisfactory
Percentage: 55.00 and Grade: E
sooraj@Asus-F-15:~/st-lab$ ./a.out
Enter the percentage of the student: 79
Good
Percentage: 79.00 and Grade: C
sooraj@Asus-F-15:~/st-lab$
```