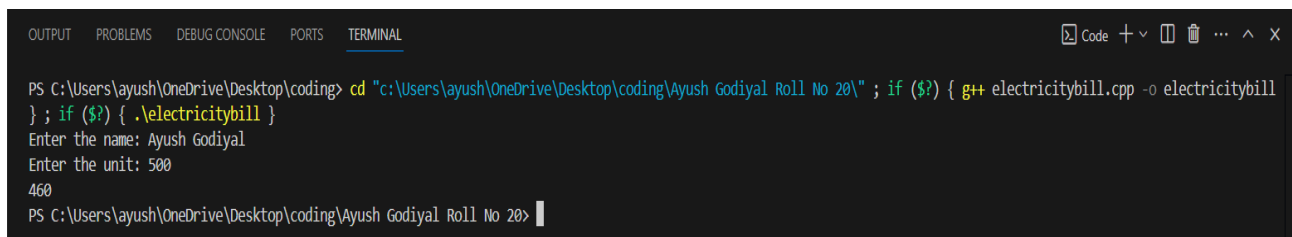1. An electricity board charges the following rates to domestic users to discourage large consumption of energy. For the first 100 units: - 60 P per unit For the next 200 units: -80 P per unit 1. Beyond 300 units: -90 P per unit All users are charged a minimum of Rs 50 if the total amount is more than Rs 300 then an additional surcharge of 15% is added. Implement a C++ program to read the names of users and number of units consumed and display the charges with names.

SOURCE CODE:

```cpp
#include<iostream>
#include<string>
using namespace std;
int main()
{
  string name;
  double charge;
  double unit;
  cout<<"Enter the name";
  getline(cin,name);
  cout<<"Enter the unit";
  cin>>unit;
  if(unit<=100)
  {
    charge=unit*0.60;
  }
  else if(unit>100&&unit<=300)
  {
    charge=0.60*100+(unit-100)*0.80;
  }
  else
  {
    charge=0.60*100+200*0.80+(unit-300)*0.90;
  }
  if(charge>300)
  {
    charge+=charge*0.15;
  }
  cout<<charge;
  return 0;
}
```

```
OUTPUT    PROBLEMS    DEBUG CONSOLE    PORTS    TERMINAL                                                                    >_ Code + ∨  ⊐ 🗑 ⋯ ∧ ✕

PS C:\Users\ayush\OneDrive\Desktop\coding> cd "c:\Users\ayush\OneDrive\Desktop\coding\Ayush Godiyal Roll No 20\" ; if ($?) { g++ electricitybill.cpp -o electricitybill
} ; if ($?) { .\electricitybill }
Enter the name: Ayush Godiyal
Enter the unit: 500
460
PS C:\Users\ayush\OneDrive\Desktop\coding\Ayush Godiyal Roll No 20> |
```