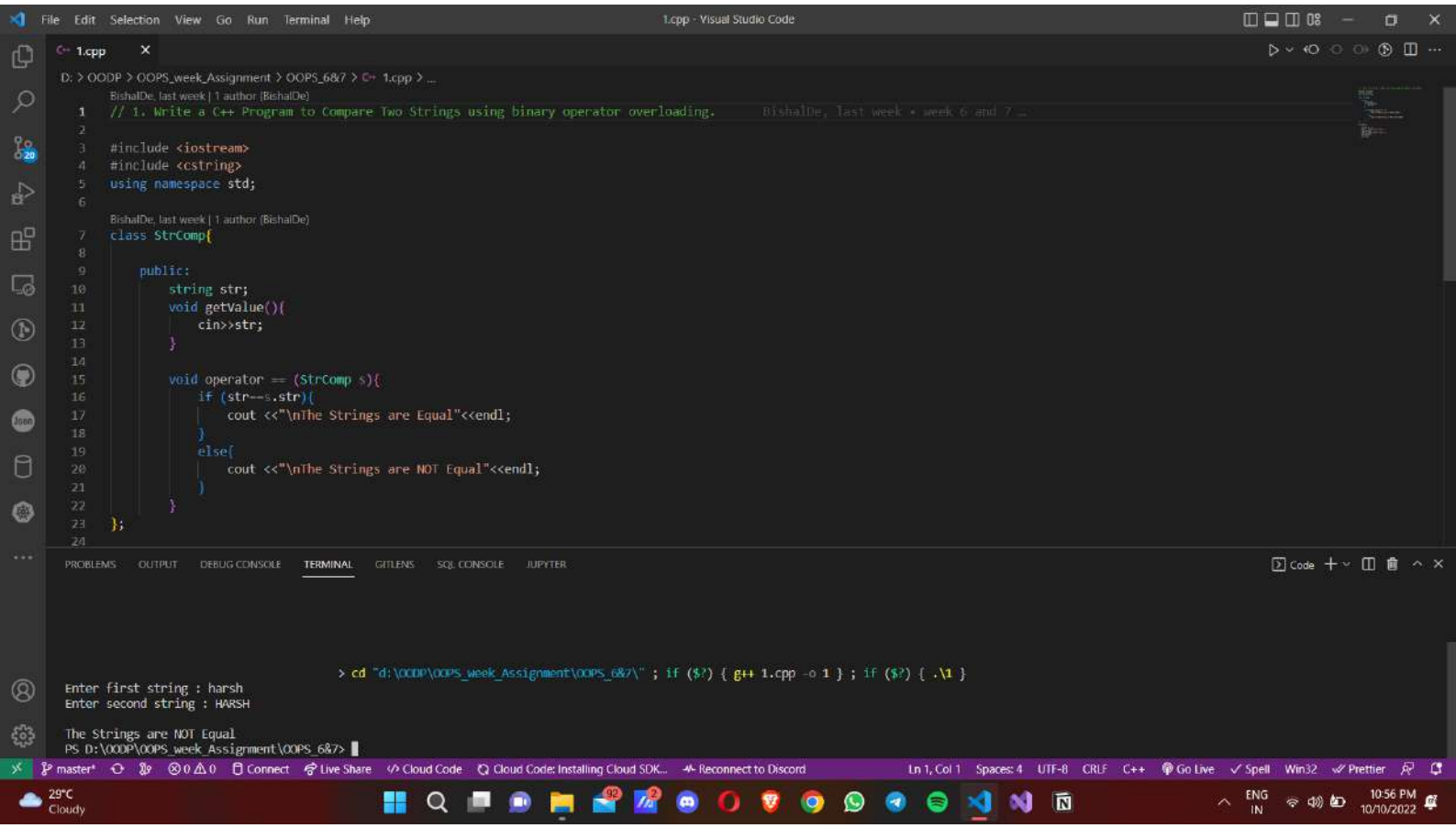
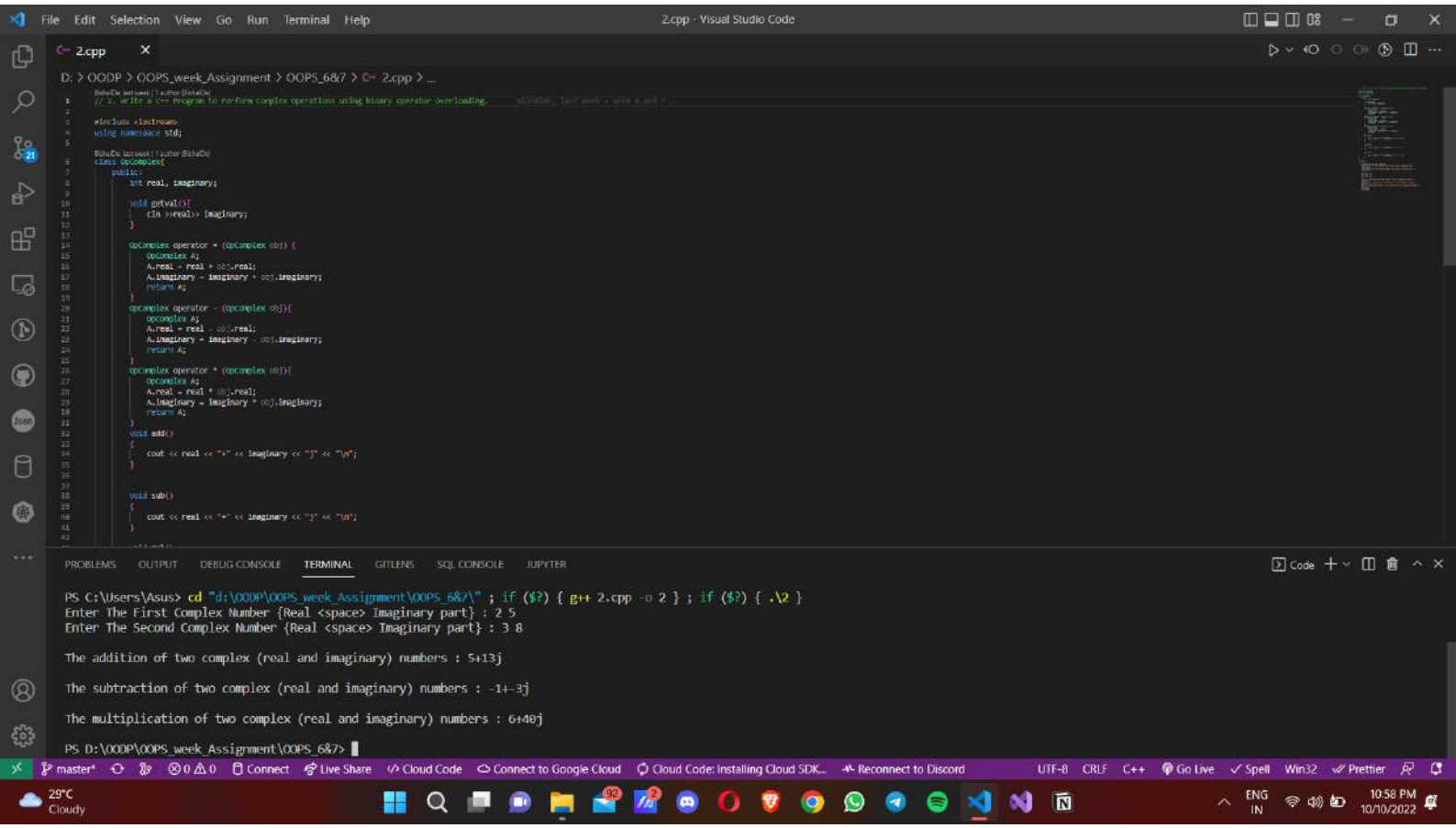
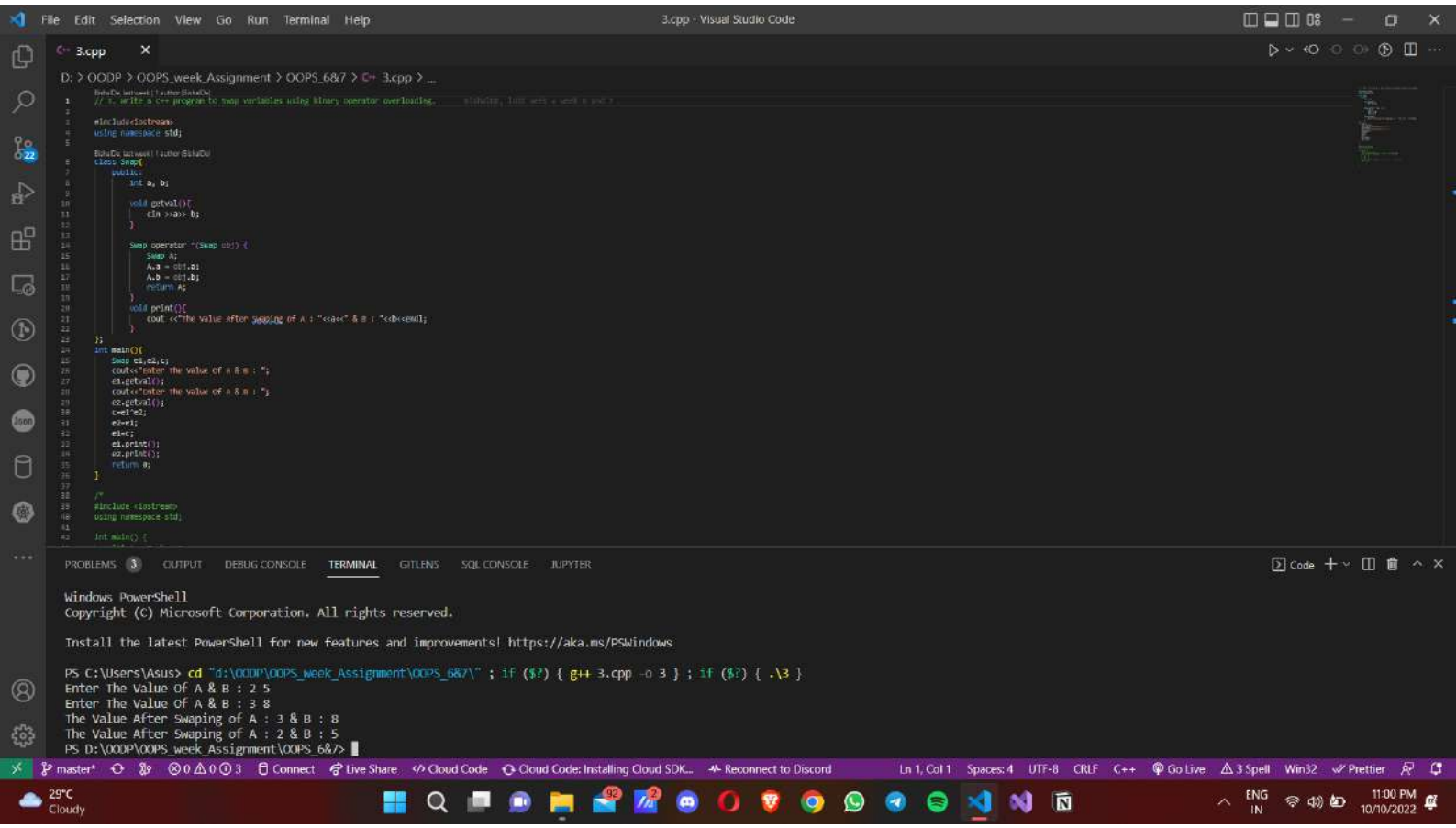

File Edit Selection View Go Run Terminal Help
1.cpp - Visual Studio Code
1.cpp
D: > OODP > OOPS_week_Assignment > OOPS_6&7 > 1.cpp > ...
BishalDe, last week | 1 author (BishalDe)
// 1. Write a C++ Program to Compare Two Strings using binary operator overloading.
BishalDe, last week • week 6 and 7 ...
#include <iostream>
#include <cstring>
using namespace std;
BishalDe, last week | 1 author (BishalDe)
class StrComp{
public:
string str;
void getValue(){
cin>>str;
}
void operator == (StrComp s){
if (str==s.str){
cout <<"\nThe Strings are Equal"<<endl;
}
else{
cout <<"\nThe Strings are NOT Equal"<<endl;
}
}
};
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS SQL CONSOLE JUPYTER
Code
> cd "d:\OODP\OOPS_week_Assignment\OOPS_6&7\" ; if ($?) { g++ 1.cpp -o 1 } ; if ($?) { .\1 }
Enter first string : harsh
Enter second string : HARSH
The Strings are NOT Equal
PS D:\OODP\OOPS_week_Assignment\OOPS_6&7>
master* 0 0 Connect Live Share Cloud Code Cloud Code: Installing Cloud SDK... Reconnect to Discord
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF C++ Go Live Spell Win32 Prettier
29°C Cloudy
ENG IN
10:56 PM 10/10/2022


File Edit Selection View Go Run Terminal Help
2.cpp - Visual Studio Code
2.cpp
D: > OODP > OOPS_week_Assignment > OOPS_6&7 > 2.cpp > ...
// 2. write a c++ program to perform complex operations using binary operator overloading.
#include <iostream>
using namespace std;
class OpComplex{
public:
int real, imaginary;
void getval(){
cin >>real>> imaginary;
}
opcomplex operator + (opcomplex obj) {
opcomplex A;
A.real = real + obj.real;
A.imaginary = imaginary + obj.imaginary;
return A;
}
opcomplex operator - (opcomplex obj){
opcomplex A;
A.real = real - obj.real;
A.imaginary = imaginary - obj.imaginary;
return A;
}
opcomplex operator * (opcomplex obj){
opcomplex A;
A.real = real * obj.real;
A.imaginary = imaginary * obj.imaginary;
return A;
}
void add()
{
cout << real << "+" << imaginary << "j" << "\n";
}
void sub()
{
cout << real << "+" << imaginary << "j" << "\n";
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS SQL CONSOLE JUPYTER
Code
PS C:\Users\Asus> cd "d:\OODP\OOPS_week_Assignment\OOPS_6&7\" ; if ($?) { g++ 2.cpp -o 2 } ; if ($?) { .\2 }
Enter The First Complex Number {Real <space> Imaginary part} : 2 5
Enter The Second Complex Number {Real <space> Imaginary part} : 3 8
The addition of two complex (real and imaginary) numbers : 5+13j
The subtraction of two complex (real and imaginary) numbers : -1+-3j
The multiplication of two complex (real and imaginary) numbers : 6+40j
PS D:\OODP\OOPS_week_Assignment\OOPS_6&7>
master*
Connect
Live Share
Cloud Code
Connect to Google Cloud
Cloud Code: Installing Cloud SDK...
Reconnect to Discord
UTF-8 CRLF C++
Go Live
Spell
Win32
Prettier
29°C
Cloudy
ENG
IN
10:58 PM
10/10/2022


File Edit Selection View Go Run Terminal Help
3.cpp - Visual Studio Code
3.cpp
D: > OODP > OOPS_week_Assignment > OOPS_6&7 > 3.cpp > ...
// 3. write a c++ program to swap variables using binary operator overloading.
#include<iostream>
using namespace std;
class Swap{
public:
int a, b;
void getval(){
cin >>a>> b;
}
Swap operator *(Swap obj) {
Swap A;
A.a = obj.a;
A.b = obj.b;
return A;
}
void print(){
cout <<"The value after Swaping of A : "<<a<<" & B : "<<b<<endl;
}
};
int main(){
Swap e1,e2,e;
cout<<"Enter the Value of A & B : ";
e1.getval();
cout<<"Enter the Value of A & B : ";
e2.getval();
e=e1*e2;
e1=e1;
e1=e;
e1.print();
e2.print();
return 0;
}
/*
#include <iostream>
using namespace std;
int main() {
PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL GITLENS SQL CONSOLE JUPYTER
Code
Windows PowerShell
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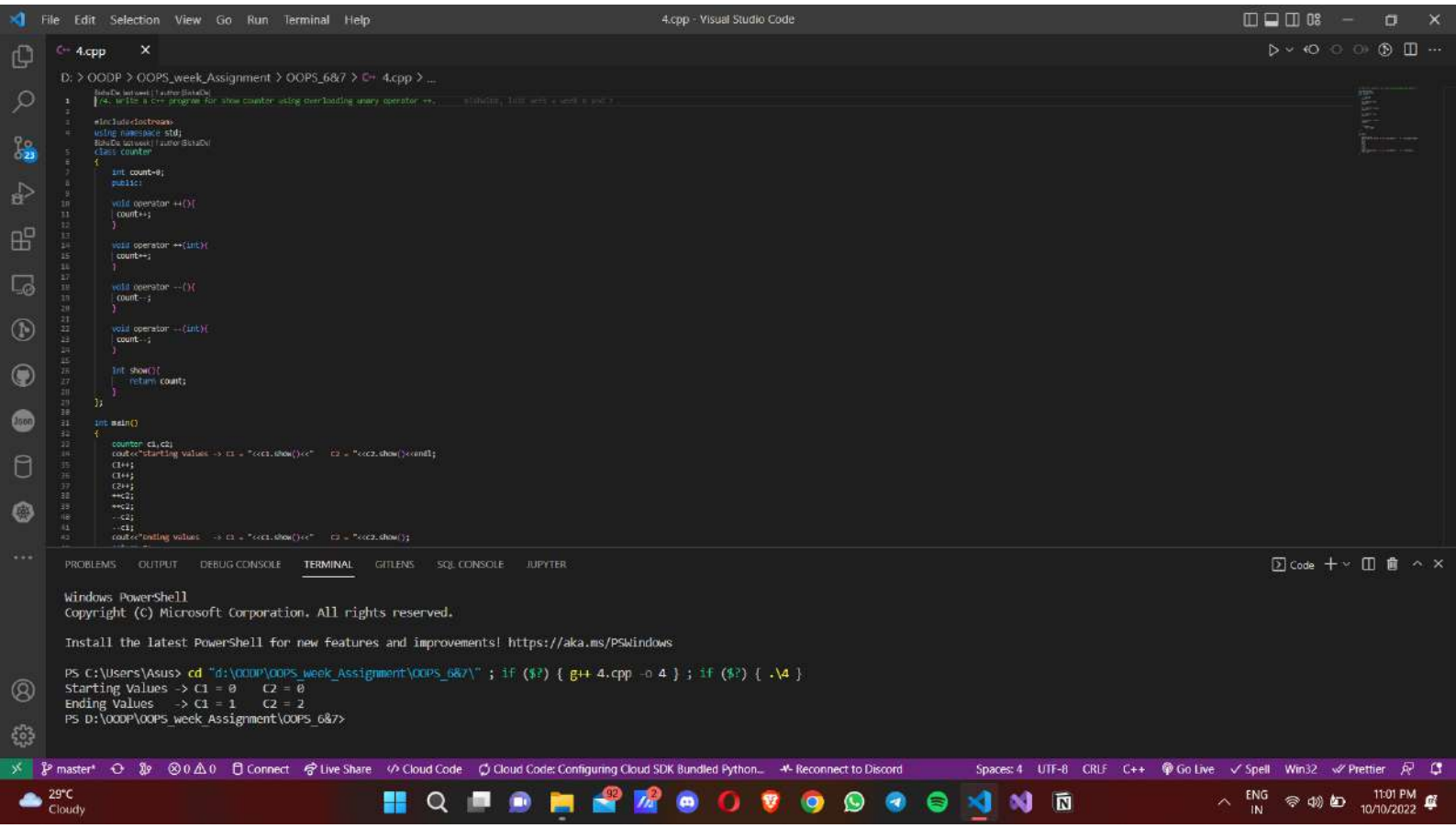
PS C:\Users\Asus> cd "d:\OODP\OOPS_week_Assignment\OOPS_6&7\" ; if ($?) { g++ 3.cpp -o 3 } ; if ($?) { .\3 }
Enter The Value Of A & B : 2 5
Enter The Value Of A & B : 3 8
The Value After Swaping of A : 3 & B : 8
The Value After Swaping of A : 2 & B : 5
PS D:\OODP\OOPS_week_Assignment\OOPS_6&7>
master* Connect Live Share Cloud Code Cloud Code: Installing Cloud SDK... Reconnect to Discord
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF C++ Go Live 3 Spell Win32 Prettier
29°C Cloudy
ENG IN
11:00 PM 10/10/2022


File Edit Selection View Go Run Terminal Help
4.cpp - Visual Studio Code
4.cpp
D: > OODP > OOPS_week_Assignment > OOPS_6&7 > 4.cpp > ...
//4. write a C++ program for show counter using overloading unary operator ++.
#include<iostream>
using namespace std;
class counter
{
int count=0;
public:
void operator ++(){
count++;
}
void operator ++(int){
count++;
}
void operator --(){
count--;
}
void operator --(int){
count--;
}
int show(){
return count;
}
};
int main()
{
counter c1,c2;
cout<<"starting values -> C1 = "<<c1.show()<<" C2 = "<<c2.show()<<endl;
C1++;
C1++;
C2++;
++c2;
++c2;
--c2;
--c1;
cout<<"ending values -> C1 = "<<c1.show()<<" C2 = "<<c2.show();
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS SQL CONSOLE JUPYTER
Code
Windows PowerShell
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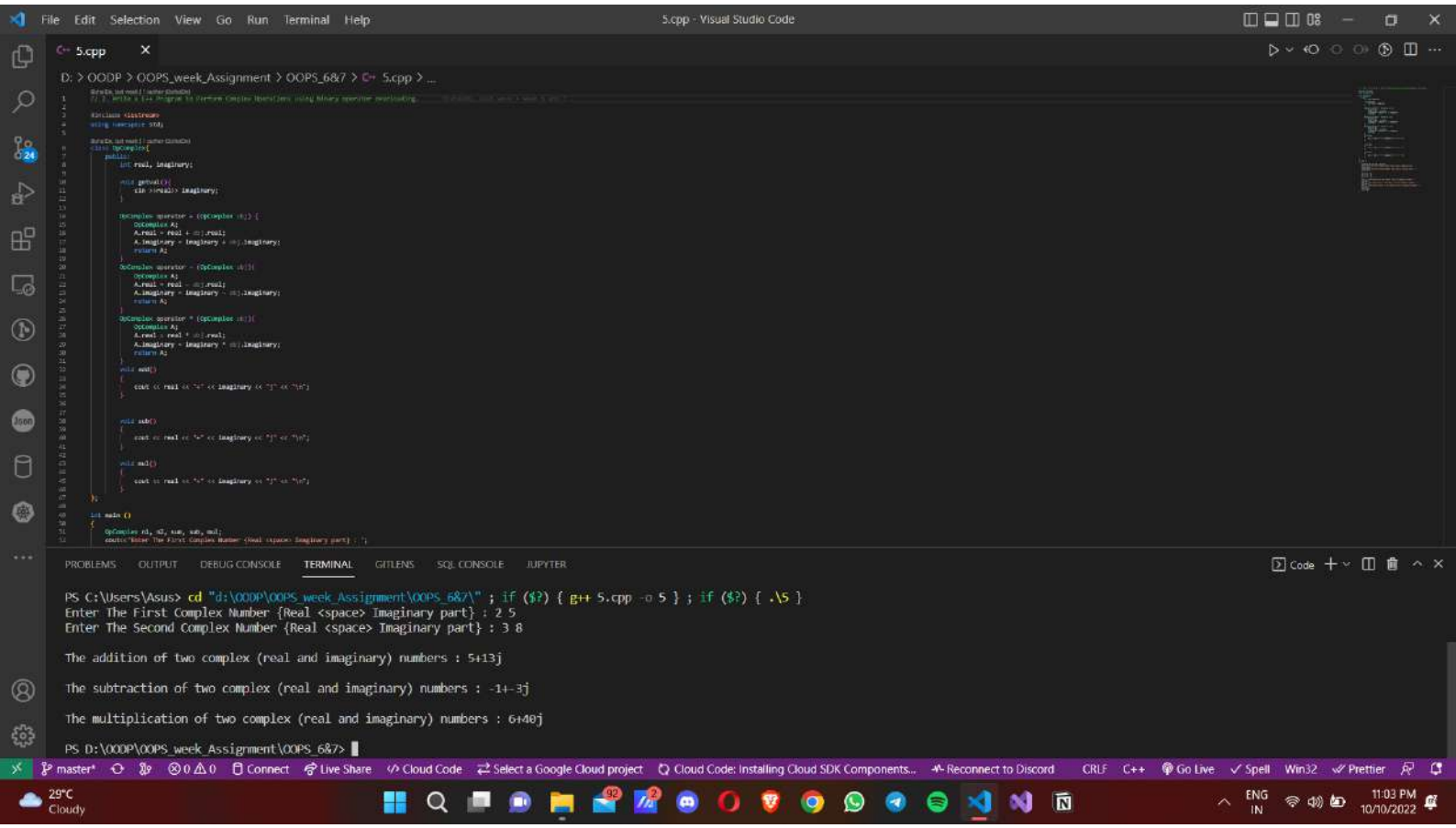
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\Asus> cd "d:\OODP\OOPS_week_Assignment\OOPS_6&7\" ; if ($?) { g++ 4.cpp -o 4 } ; if ($?) { .\4 }
Starting Values -> C1 = 0 C2 = 0
Ending Values -> C1 = 1 C2 = 2
PS D:\OODP\OOPS_week_Assignment\OOPS_6&7>
master* Connect Live Share Cloud Code Cloud Code: Configuring Cloud SDK Bundled Python... Reconnect to Discord
Spaces: 4 UTF-8 CRLF C++ Go Live Spell Win32 Prettier
29°C Cloudy
ENG IN
11:01 PM 10/10/2022


File Edit Selection View Go Run Terminal Help
5.cpp - Visual Studio Code
5.cpp
D: > OODP > OOPS_week_Assignment > OOPS_6&7 > 5.cpp > ...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS SQL CONSOLE JUPYTER
PS C:\Users\Asus> cd "d:\OODP\OOPS_week_Assignment\OOPS_6&7\" ; if ($?) { g++ 5.cpp -o 5 } ; if ($?) { .\5 }
Enter The First Complex Number {Real <space> Imaginary part} : 2 5
Enter The Second Complex Number {Real <space> Imaginary part} : 3 8
The addition of two complex (real and imaginary) numbers : 5+13j
The subtraction of two complex (real and imaginary) numbers : -1+-3j
The multiplication of two complex (real and imaginary) numbers : 6+40j
PS D:\OODP\OOPS_week_Assignment\OOPS_6&7>
master*
Connect
Live Share
Cloud Code
Select a Google Cloud project
Cloud Code: Installing Cloud SDK Components...
Reconnect to Discord
CRLF
C++
Go Live
Spell
Win32
Prettier
29°C
Cloudy
ENG
IN
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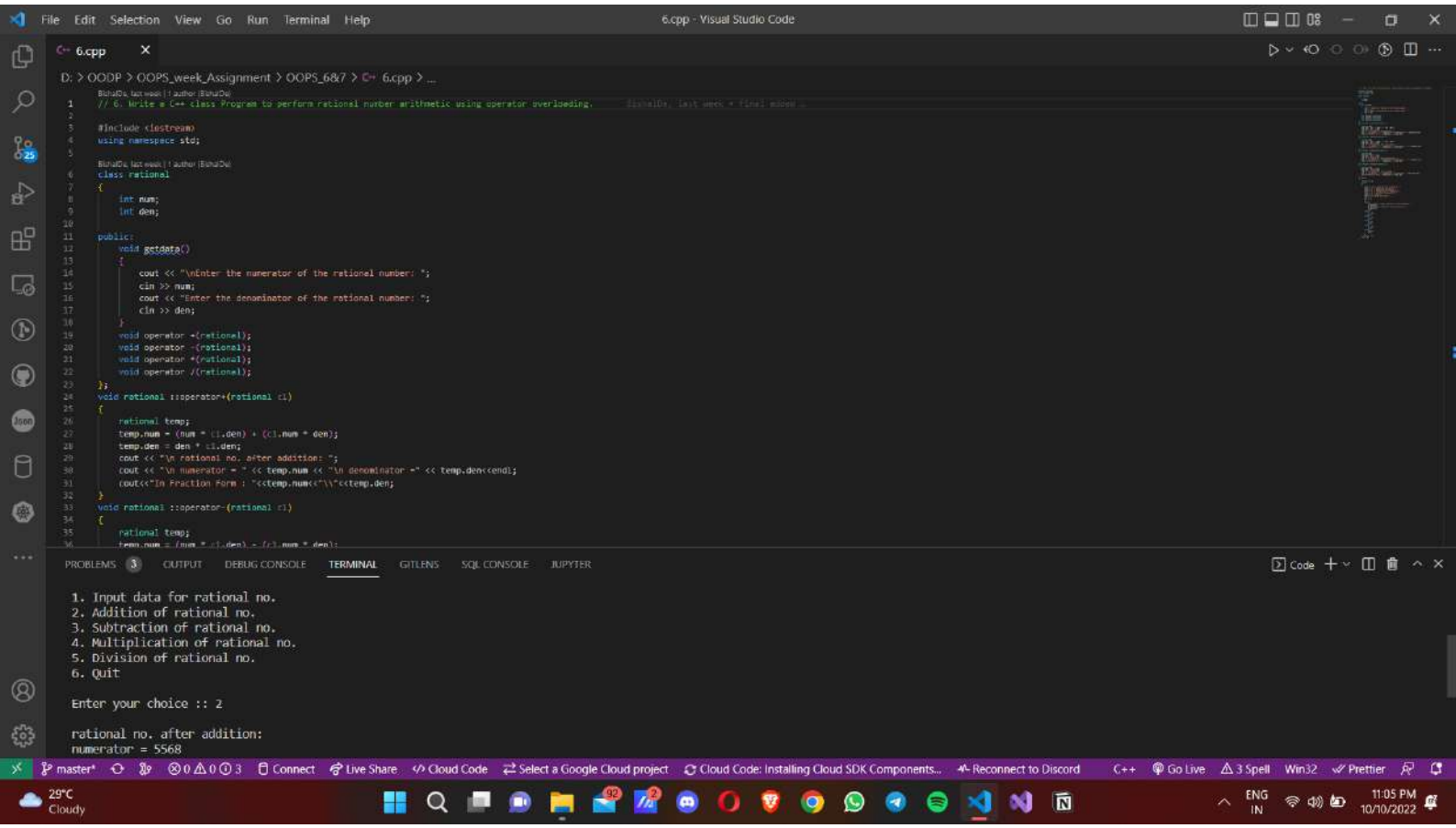
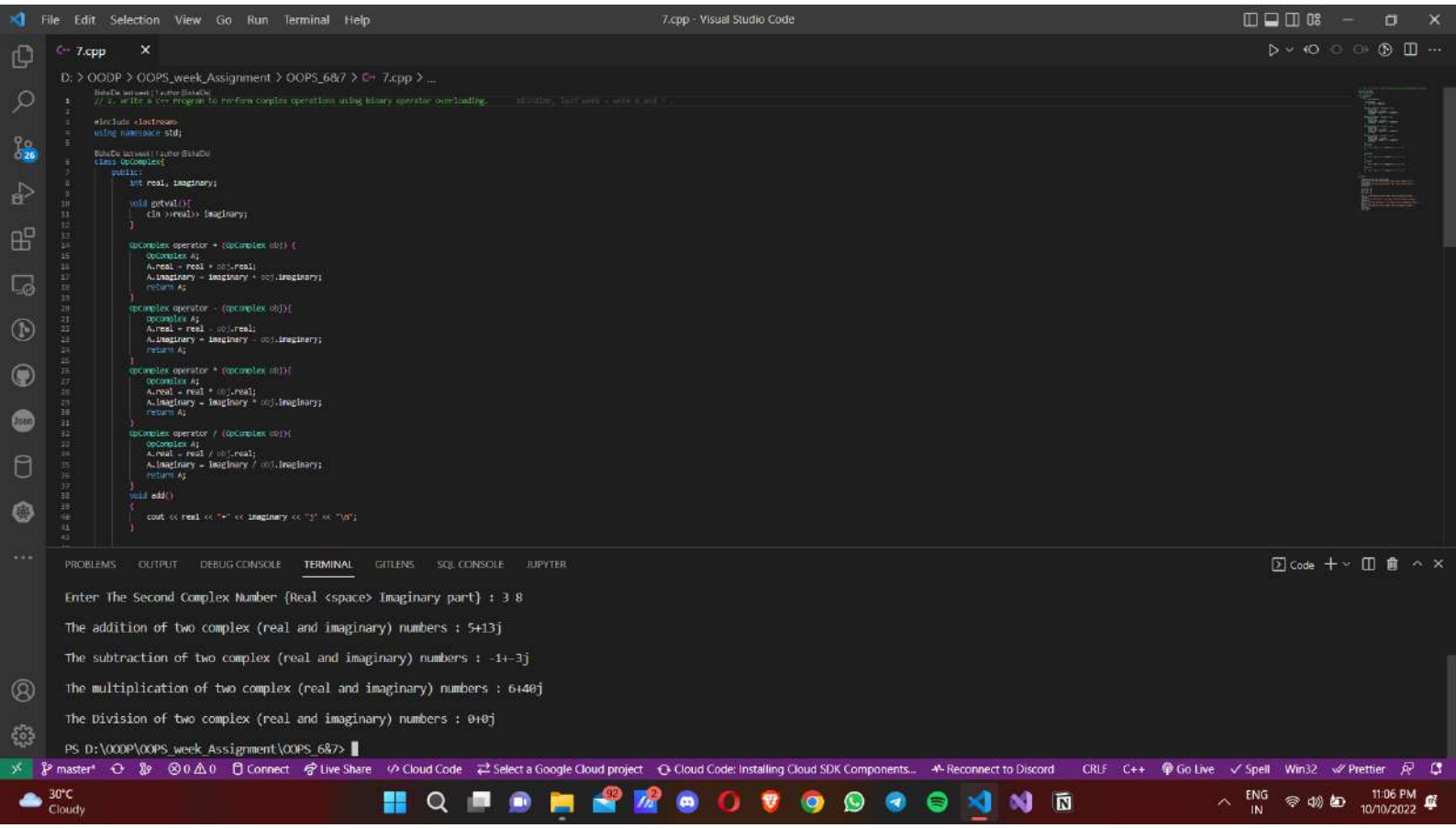
10/10/2022


File Edit Selection View Go Run Terminal Help
6.cpp - Visual Studio Code
6.cpp
D: > OODP > OOPS_week_Assignment > OOPS_6&7 > 6.cpp > ...
// 6. Write a C++ class Program to perform rational number arithmetic using operator overloading.
#include <iostream>
using namespace std;
class rational
{
int num;
int den;
public:
void getdata()
{
cout << "\nEnter the numerator of the rational number: ";
cin >> num;
cout << "Enter the denominator of the rational number: ";
cin >> den;
}
void operator +(rational);
void operator -(rational);
void operator *(rational);
void operator /(rational);
};
void rational ::operator+(rational c1)
{
rational temp;
temp.num = (num * c1.den) + (c1.num * den);
temp.den = den * c1.den;
cout << "\n rational no. after addition: ";
cout << "\n numerator = " << temp.num << "\n denominator =" << temp.den<<endl;
cout<<"In Fraction Form : "<<temp.num<<"\\"<<temp.den;
}
void rational ::operator-(rational c1)
{
rational temp;
PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL GITLENS SQL CONSOLE JUPYTER
Code
1. Input data for rational no.
2. Addition of rational no.
3. Subtraction of rational no.
4. Multiplication of rational no.
5. Division of rational no.
6. Quit
Enter your choice :: 2
rational no. after addition:
numerator = 5568
master*
Connect
Live Share
Cloud Code
Select a Google Cloud project
Cloud Code: Installing Cloud SDK Components...
Reconnect to Discord
C++
Go Live
3 Spell
Win32
Prettier
29°C
Cloudy
ENG
IN
11:05 PM
10/10/2022


File Edit Selection View Go Run Terminal Help
7.cpp - Visual Studio Code
7.cpp
D: > OODP > OOPS_week_Assignment > OOPS_6&7 > 7.cpp > ...
// 2. write a c++ program to perform complex operations using binary operator overloading.
#include <iostream>
using namespace std;
class OpComplex{
public:
int real, imaginary;
void getval(){
cin >>real>> imaginary;
}
opcomplex operator + (OpComplex obj) {
opcomplex A;
A.real = real + obj.real;
A.imaginary = imaginary + obj.imaginary;
return A;
}
opcomplex operator - (opcomplex obj){
opcomplex A;
A.real = real - obj.real;
A.imaginary = imaginary - obj.imaginary;
return A;
}
opcomplex operator * (opcomplex obj){
opcomplex A;
A.real = real * obj.real;
A.imaginary = imaginary * obj.imaginary;
return A;
}
opComplex operator / (OpComplex obj){
OpComplex A;
A.real = real / obj.real;
A.imaginary = imaginary / obj.imaginary;
return A;
}
void add()
{
cout << real << "+" << imaginary << "j" << "\n";
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS SQL CONSOLE JUPYTER
Code
Enter The Second Complex Number {Real <space> Imaginary part} : 3 8
The addition of two complex (real and imaginary) numbers : 5+13j
The subtraction of two complex (real and imaginary) numbers : -1+-3j
The multiplication of two complex (real and imaginary) numbers : 6+40j
The Division of two complex (real and imaginary) numbers : 0+0j
PS D:\OODP\OOPS_week_Assignment\OOPS_6&7>
master*
Connect
Live Share
Cloud Code
Select a Google Cloud project
Cloud Code: Installing Cloud SDK Components...
Reconnect to Discord
CRLF
C++
Go Live
Spell
Win32
Prettier
30°C
Cloudy
ENG
IN
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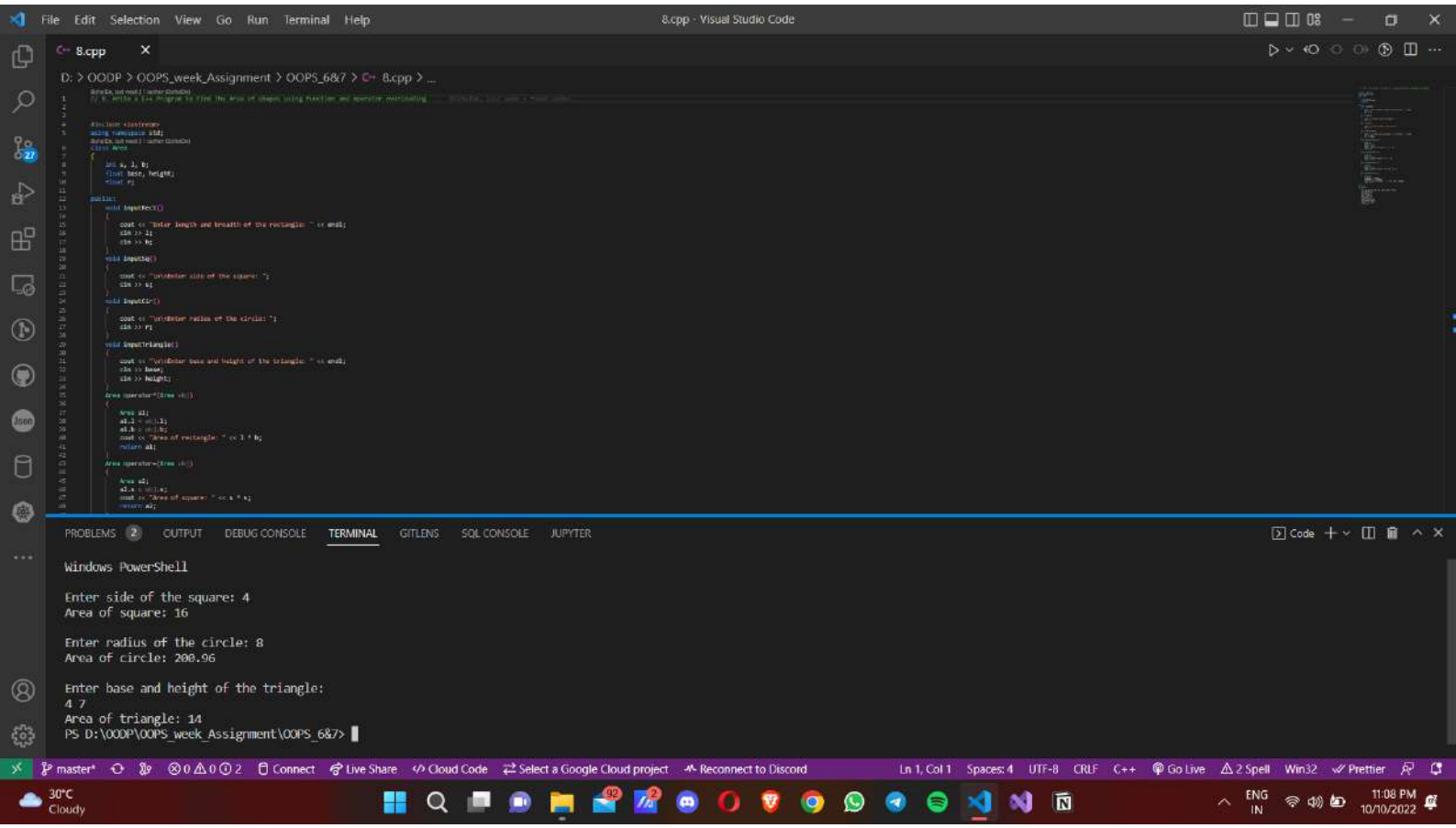
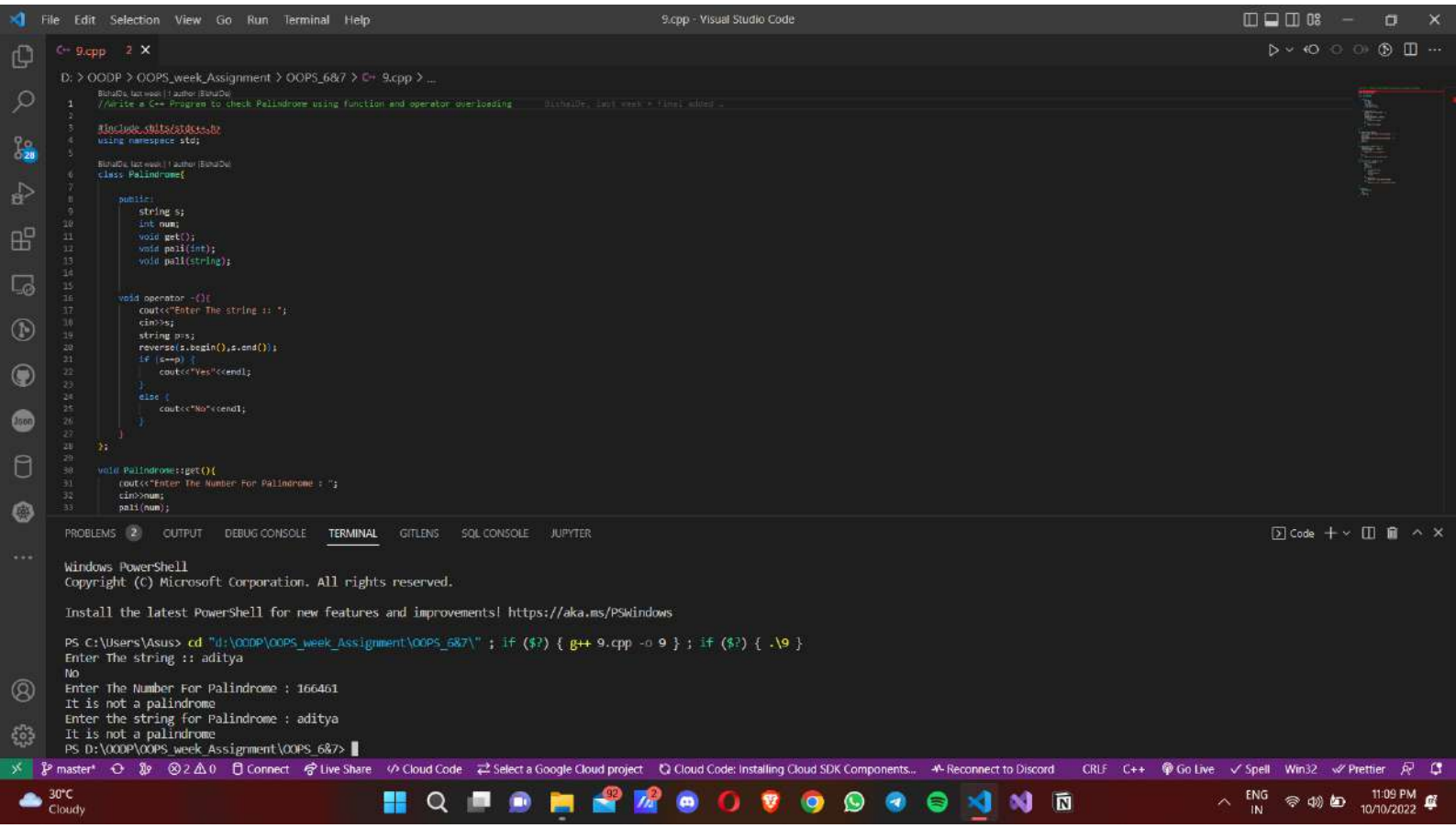
10/10/2022


File Edit Selection View Go Run Terminal Help
8.cpp - Visual Studio Code
8.cpp
D: > OODP > OOPS_week_Assignment > OOPS_6&7 > 8.cpp > ...
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL GITLENS SQL CONSOLE JUPYTER
Windows PowerShell
Enter side of the square: 4
Area of square: 16
Enter radius of the circle: 8
Area of circle: 200.96
Enter base and height of the triangle:
4 7
Area of triangle: 14
PS D:\OODP\OOPS_week_Assignment\OOPS_6&7>
master*
Connect
Live Share
Cloud Code
Select a Google Cloud project
Reconnect to Discord
Ln 1, Col 1
Spaces: 4
UTF-8
CRLF
C++
Go Live
2 Spell
Win32
Prettier
30°C
Cloudy
ENG
IN
11:08 PM
10/10/2022


File Edit Selection View Go Run Terminal Help
9.cpp - Visual Studio Code
9.cpp 2
D: > OODP > OOPS_week_Assignment > OOPS_6&7 > 9.cpp > ...
//Write a C++ Program to check Palindrome using function and operator overloading
#include <bits/stdc++.h>
using namespace std;
class Palindrome{
public:
string s;
int num;
void get();
void pali(int);
void pali(string);
void operator -(){
cout<<"Enter The string :: ";
cin>>s;
string p=s;
reverse(s.begin(),s.end());
if (s==p) {
cout<<"Yes"<<endl;
}
else {
cout<<"No"<<endl;
}
}
};
void Palindrome::get(){
cout<<"Enter The Number For Palindrome : ";
cin>>num;
pali(num);
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL GITLENS SQL CONSOLE JUPYTER
Code
Windows PowerShell
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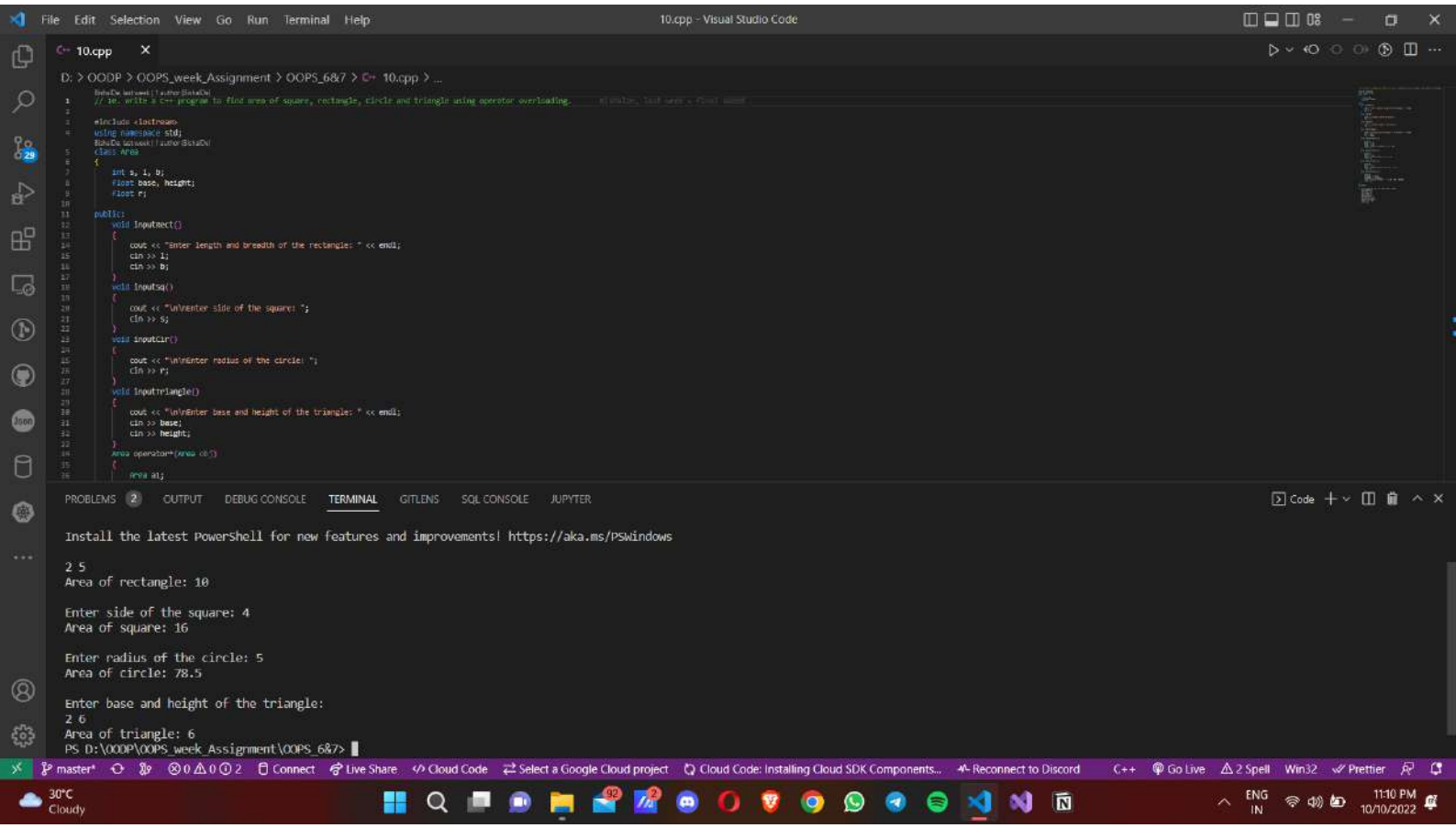
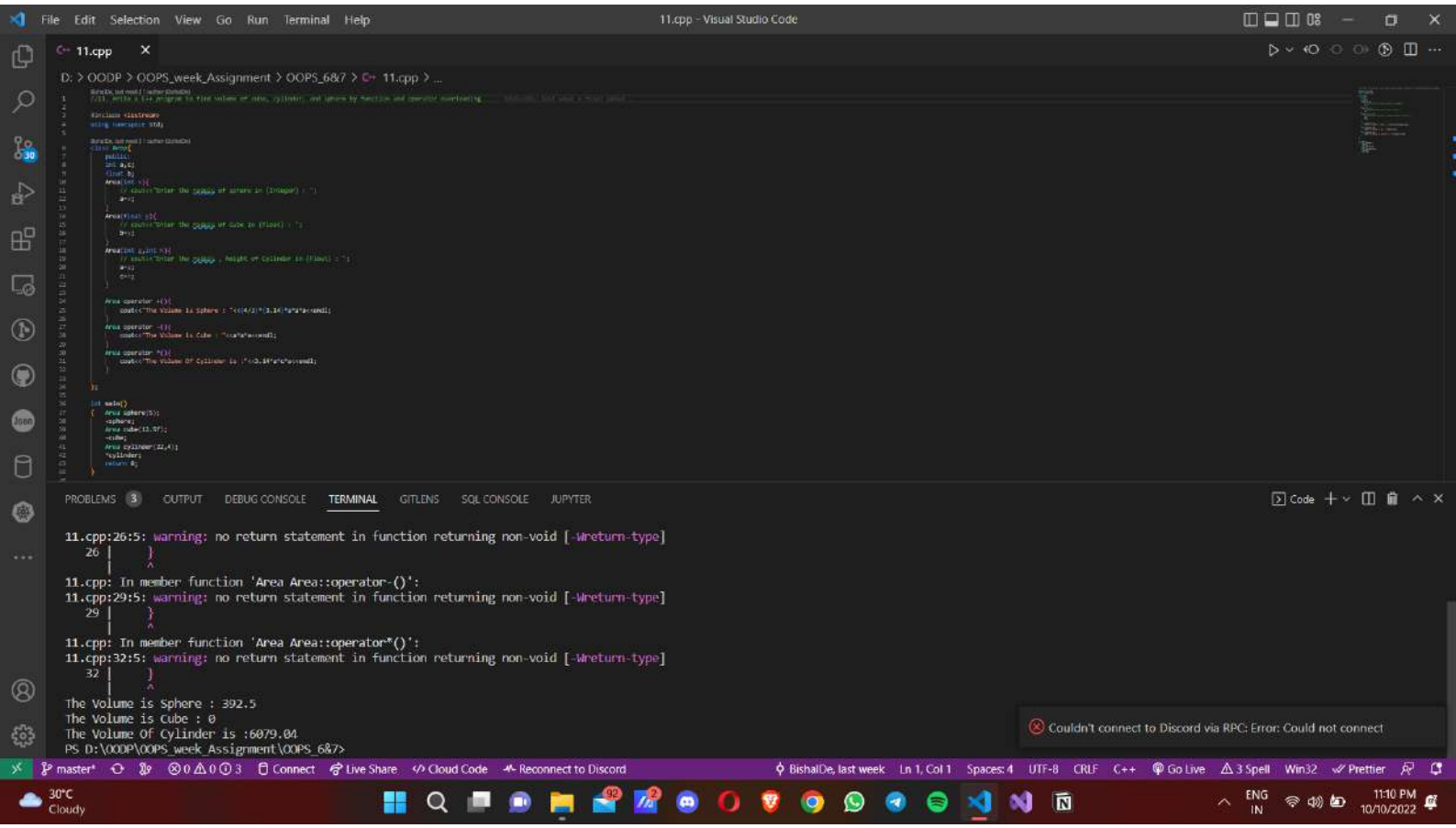
PS C:\Users\Asus> cd "d:\OODP\OOPS_week_Assignment\OOPS_6&7\" ; if ($?) { g++ 9.cpp -o 9 } ; if ($?) { .\9 }
Enter The string :: aditya
No
Enter The Number For Palindrome : 166461
It is not a palindrome
Enter the string for Palindrome : aditya
It is not a palindrome
PS D:\OODP\OOPS_week_Assignment\OOPS_6&7>
master*
Connect
Live Share
Cloud Code
Select a Google Cloud project
Cloud Code: Installing Cloud SDK Components...
Reconnect to Discord
CRLF
C++
Go Live
Spell
Win32
Prettier
30°C
Cloudy
ENG
IN
11:09 PM
10/10/2022


File Edit Selection View Go Run Terminal Help
10.cpp - Visual Studio Code
10.cpp
D: > OODP > OOPS_week_Assignment > OOPS_6&7 > 10.cpp > ...
// 10. Write a C++ program to find area of square, rectangle, circle and triangle using operator overloading.
#include <iostream>
using namespace std;
class Area
{
int s, l, b;
float base, height;
float r;
public:
void InputRect()
{
cout << "Enter length and breadth of the rectangle: " << endl;
cin >> l;
cin >> b;
}
void Inputsq()
{
cout << "\n\nenter side of the square: ";
cin >> s;
}
void InputCir()
{
cout << "\n\nEnter radius of the circle: ";
cin >> r;
}
void InputTriangle()
{
cout << "\n\nEnter base and height of the triangle: " << endl;
cin >> base;
cin >> height;
}
Area operator+(Area o1)
{
Area a1;
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL GITLENS SQL CONSOLE JUPYTER
Code
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
2 5
Area of rectangle: 10
Enter side of the square: 4
Area of square: 16
Enter radius of the circle: 5
Area of circle: 78.5
Enter base and height of the triangle:
2 6
Area of triangle: 6
PS D:\OODP\OOPS_week_Assignment\OOPS_6&7>
master* Connect Live Share Cloud Code Select a Google Cloud project Cloud Code: Installing Cloud SDK Components... Reconnect to Discord C++ Go Live 2 Spell Win32 Prettier
30°C Cloudy
ENG IN
11:10 PM 10/10/2022


File Edit Selection View Go Run Terminal Help
11.cpp - Visual Studio Code
11.cpp
D: > OODP > OOPS_week_Assignment > OOPS_6&7 > 11.cpp > ...
PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL GITLENS SQL CONSOLE JUPYTER
11.cpp:26:5: warning: no return statement in function returning non-void [-Wreturn-type]
26 | }
| ^
11.cpp: In member function 'Area Area::operator-()':
11.cpp:29:5: warning: no return statement in function returning non-void [-Wreturn-type]
29 | }
| ^
11.cpp: In member function 'Area Area::operator*()':
11.cpp:32:5: warning: no return statement in function returning non-void [-Wreturn-type]
32 | }
| ^
The Volume is Sphere : 392.5
The Volume is Cube : 0
The Volume Of Cylinder is :6079.04
PS D:\OODP\OOPS_week_Assignment\OOPS_6&7>
Couldn't connect to Discord via RPC: Error: Could not connect
master* Connect Live Share Cloud Code Reconnect to Discord
BishalDe, last week Ln 1, Col 1 Spaces: 4 UTF-8 CRLF C++ Go Live 3 Spell Win32 Prettier
30°C Cloudy
ENG IN
11:10 PM 10/10/2022