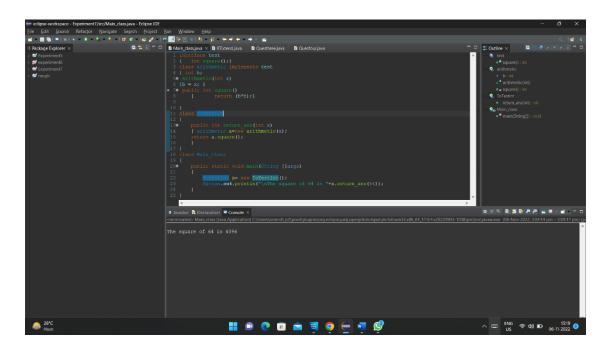
OM MITTAL EXPERIMENT 7 R2142210982

1) Write a program to create interface named test. In this interface the member function is square. Implement this interface in arithmetic class. Create one new class called ToTestInt. In this class use the object of arithmetic class.

CODE:-

```
interface test
         int square();}
class arithmetic implements test
{ int b:
arithmetic(int x)
{b = x; }
public int square()
                           return (b*b);}
class ToTestInt
         public int return_ans(int x)
         { arithmetic a=new arithmetic(x);
         return a.square();
class Main_class
         public static void main(String []args)
                  ToTestInt x= new ToTestInt();
                  System.out.println("\nThe square of 64 is "+x.return_ans(64));
```

SCREENSHOT:-



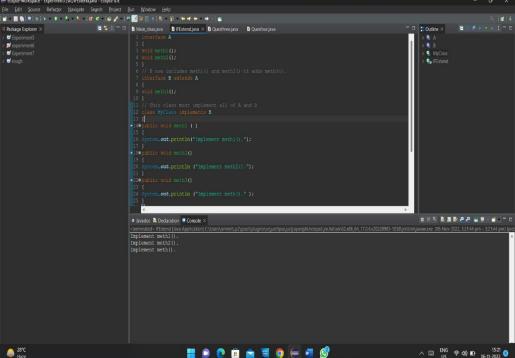
2) Write a program to create interface A, in this interface we have two method meth1 and meth2. Implements this interface in another class named MyClass.

CODE:-

```
interface A
void meth1();
void meth2();
// B now includes meth1() and meth2()-it adds meth3().
interface B extends A
void meth3();
// This class must implement all of A and B
class MyClass implements B
public void meth1 ()
System.out.println("Implement meth1().");
public void meth2()
System.out.println ("Implement meth2().");
public void meth3()
System.out.println ("Implement meth()." );
class IFExtend
public static void main(String arg[])
MyClass ob = new MyClass();
ob.meth1();
ob.meth2();
ob.meth3();
```

SCREENSHORT:-

}

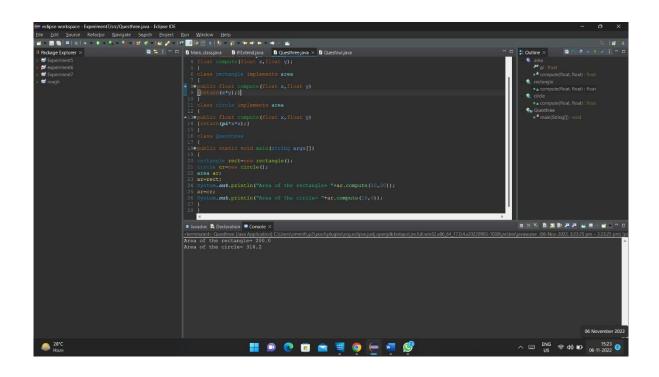


3) Write a program in Java to show the usefulness of Interfaces as a place to keep constant value of the program

CODE:-

```
interface area
static final float pi=3.142f;
float compute(float x,float y);
class rectangle implements area
public float compute(float x,float y)
\{return(x*y);\}
class circle implements area
public float compute(float x,float y)
{return(pi*x*x);}
class Questhree
public static void main(String args[])
rectangle rect=new rectangle();
circle cr=new circle();
area ar;
ar=rect;
System.out.println("Area of the rectangle= "+ar.compute(10,20));
System.out.println("Area of the circle= "+ar.compute(10,0));
```

SCREENSHORT:-



4) Write a program to create an Interface having two methods division and modules. Create a class, which overrides these methods.

CODE:-

```
interface course
void division(int a);
void modules(int b);
class stud implements course
String name;
int div, mod;
void name(String n)
{ name=n; }
public void division(int a)
{ div=a; }
public void modules(int b)
{ mod=b; }
void disp()
System.out.println("Name:"+name);
System.out.println("Division:"+div);
System.out.println("Modules:"+mod);
   -----main-----
class Quesfour
public static void main(String args[])
{ stud s=new stud();
s.name("OM MITTAL");
s.division(5);
s.modules(15);
s.disp();
```

SCREENSHORT:-

