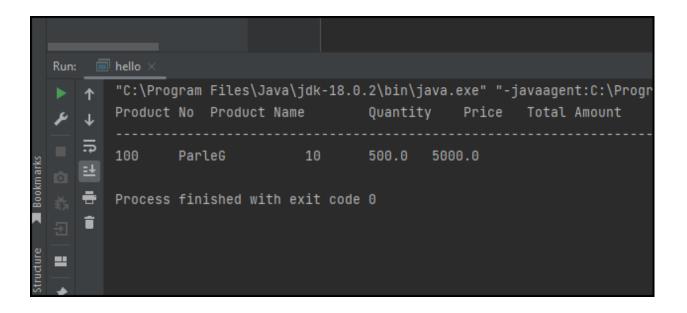
1. Create a class for a Product with product no(int), productname(String), price(float) and quantity(int) as attributes. Create a method to initialize variables (attributes) and another method to invoke values of attributes. Finally print the output in the console in the following format.

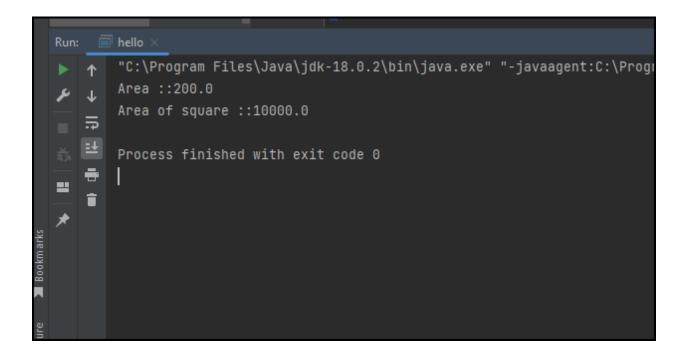
Product No Product Name Quantity Price Total Amount

Value value value value value

```
mport java.util.*;
lass Product{
   int ProductNo , Quantity
  String ProductName ;
  void getProduct(int ProductNo , String ProductName , int Quantity
       this.Price = Price ;
      d setProduct()
ublic class hello {
System.out.println("Product No\t" +
"Quantity\t" + "Price\t" + "Total Amount");
```



2. Write a program to calculate the area of a rectangle and the area of a square by using method overloading. Take the input for dimension of rectangle and square from console. Handle appropriate exceptions in order to stop abnormal termination of execution.



3. Create an abstract class called Employee with following attributes and methods.

Empid(int), empname(String) -> Attributes

input(int,String) -> Concrete Method

output() -> Concrete Method

roles Responsibilities() -> abstract method

Create a class called Manager which is a subclass of Employee and override the abstract method of Employee. Invoke all the methods.

(Note: Implementation of methods should be appropriate)

```
package com.example.hello;
import java.util.*;
import java.lang.* ;
//vineet codes java
// sout-- printing single lines
// psvm --> main file
```

```
String empName ;
  private int empId;
  abstract public void role Responsibilities();
   public void setInput(int id , String name )
       empId = id ;
  public void getInput() {
       System.out.println("emp id ::" + empId);
      System.out.println("emp name ::" + empName);
 lass Manager extends Employee {
  @Override
      System.out.println("The role of manager and
oublic class hello {
 public static void main(String[] args) {
Manager m = new Manager() ;
m.setInput(100 , "vineet");
m.getInput();
```

```
Run: hello ×

| C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBra emp id ::100
| emp name ::vineet | The role of manager and responsibility wil be xyz...

| Process finished with exit code 0 |
```