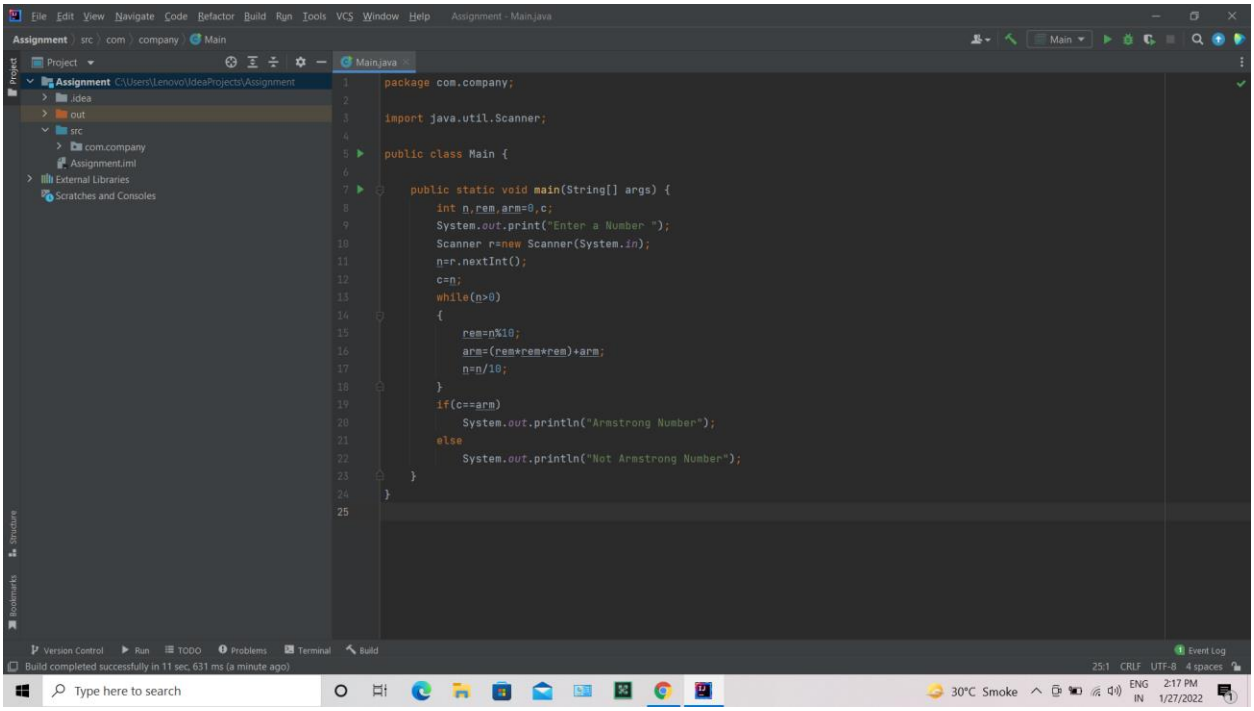
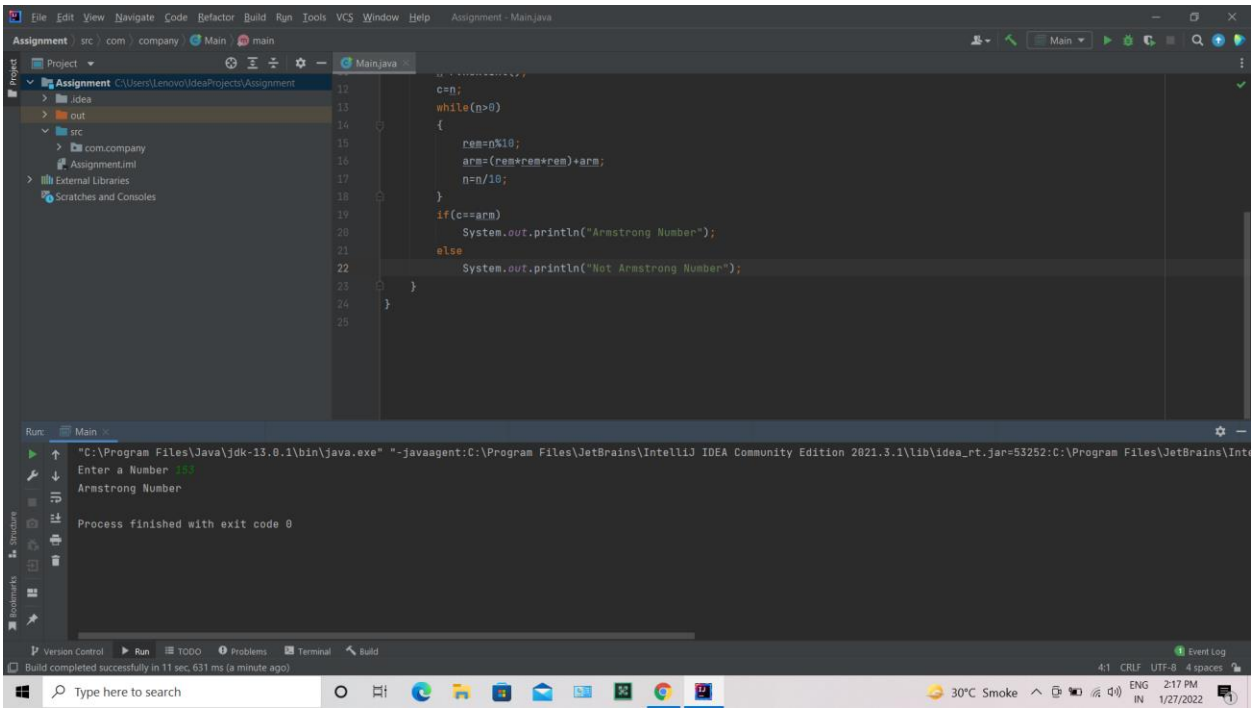
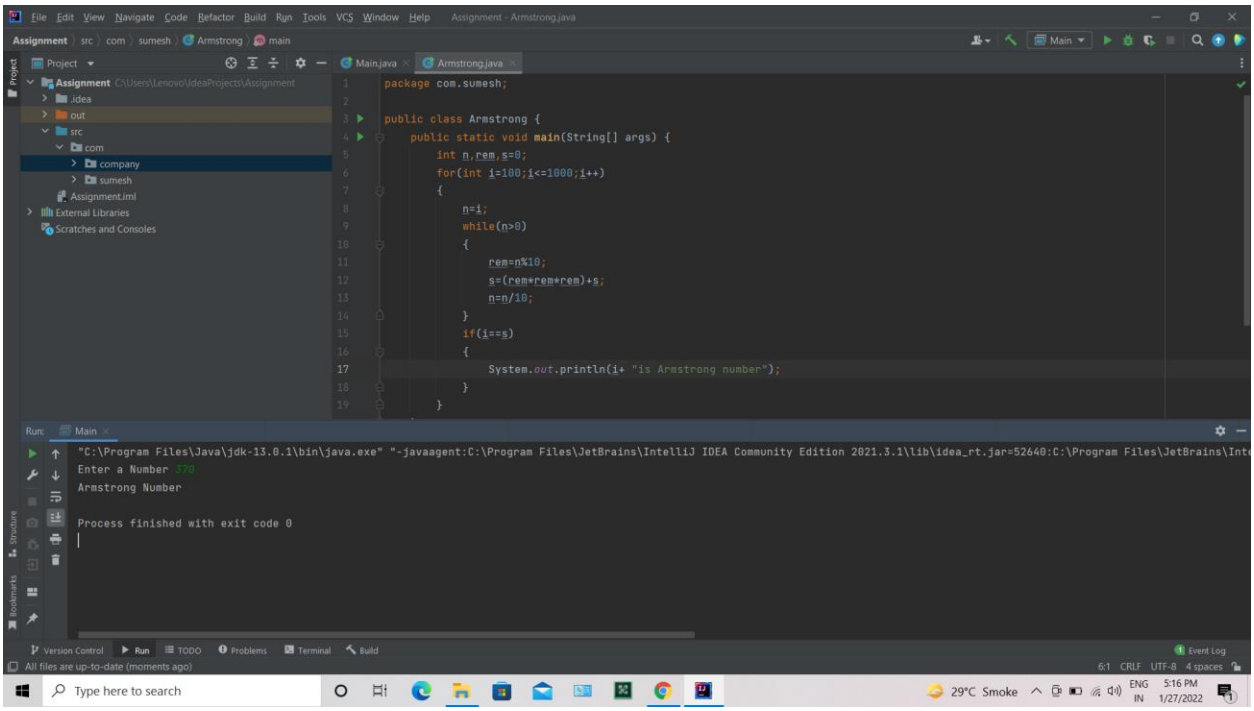
Assignment 1 core java Q1

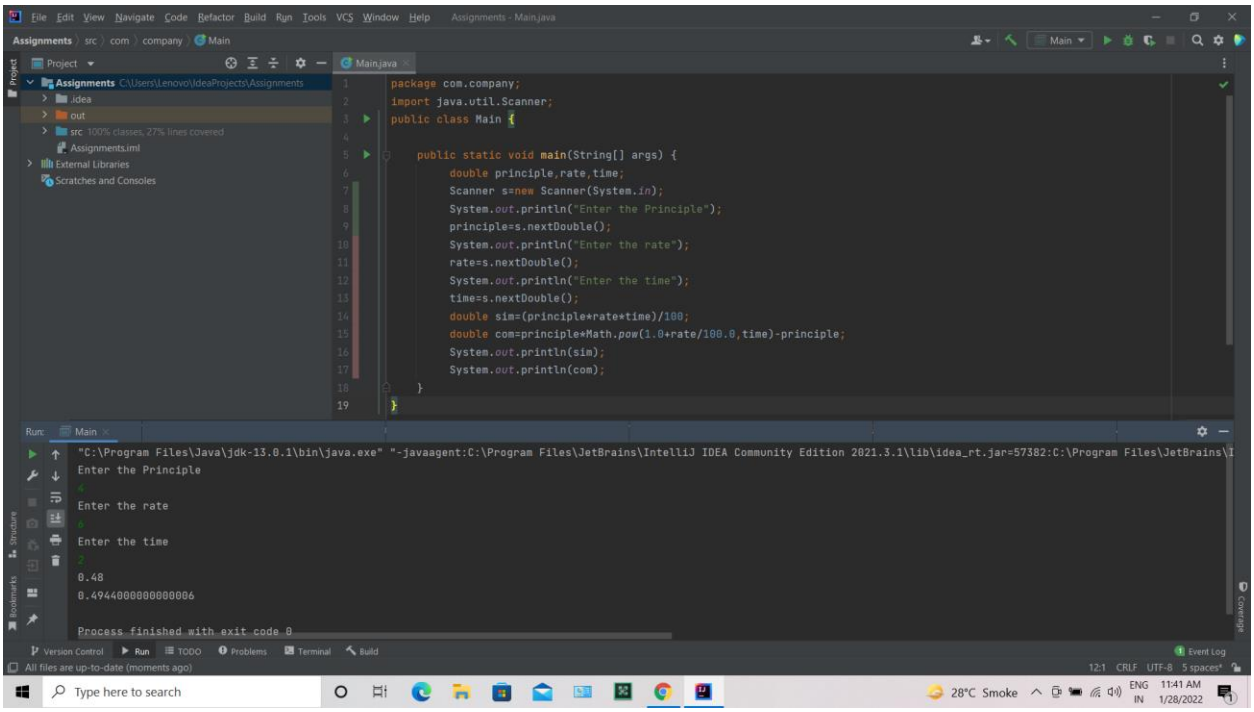




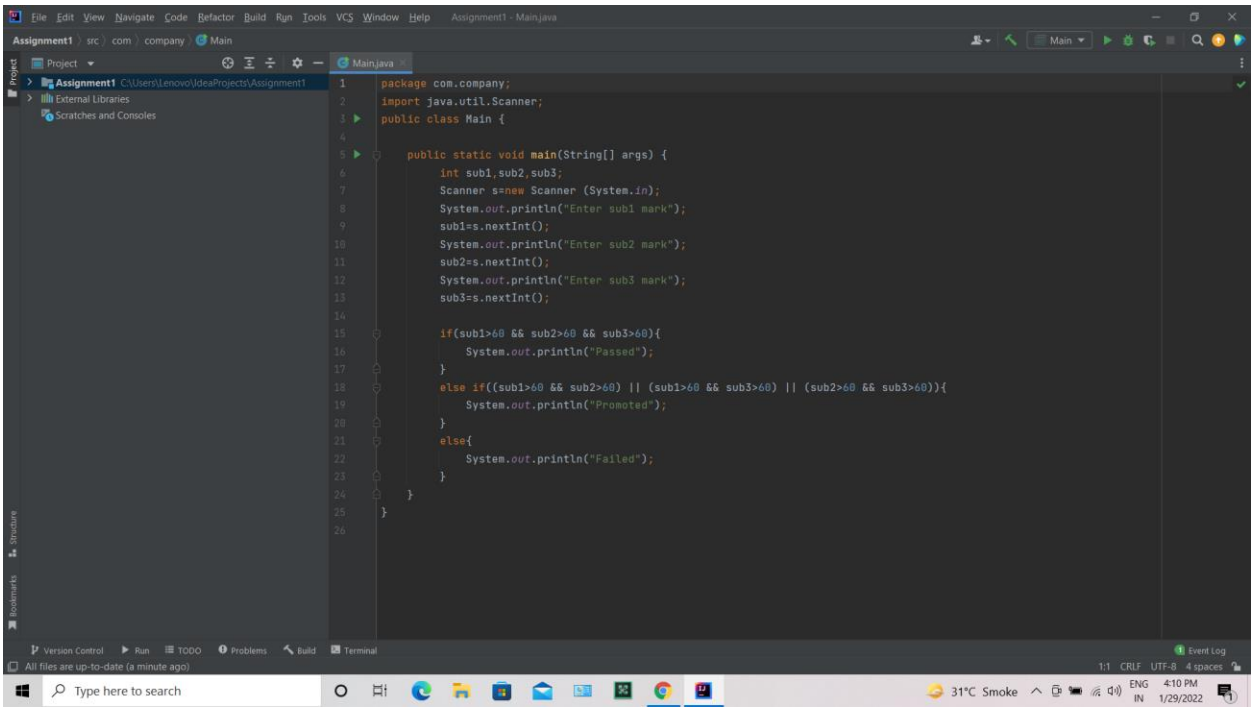
Q2


File Edit View Navigate Code Refactor Build Run Tools VCS Window Help
Assignment - Armstrong.java
Assignment src com sumesh Armstrong main
Main
Project
Assignment C:\Users\Lenovo\IdeaProjects\Assignment
.idea
out
src
com
company
sumesh
Assignment.iml
External Libraries
Scratches and Consoles
Main.java
Armstrong.java
package com.sumesh;
public class Armstrong {
public static void main(String[] args) {
int n,rem,s=0;
for(int i=100;i<=1000;i++)
{
n=i;
while(n>0)
{
rem=n%10;
s=(rem*rem*rem)+s;
n=n/10;
}
if(i==s)
{
System.out.println(i+ "is Armstrong number");
}
}
Run: Main
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.3.1\lib\idea_rt.jar=52640:C:\Program Files\JetBrains\Int
Enter a Number 370
Armstrong Number
Process finished with exit code 0
Version Control
Run
TODO
Problems
Terminal
Build
Event Log
All files are up-to-date (moments ago)
6:1 CRLF UTF-8 4 spaces
Type here to search
29°C Smoke
ENG IN
5:16 PM 1/27/2022

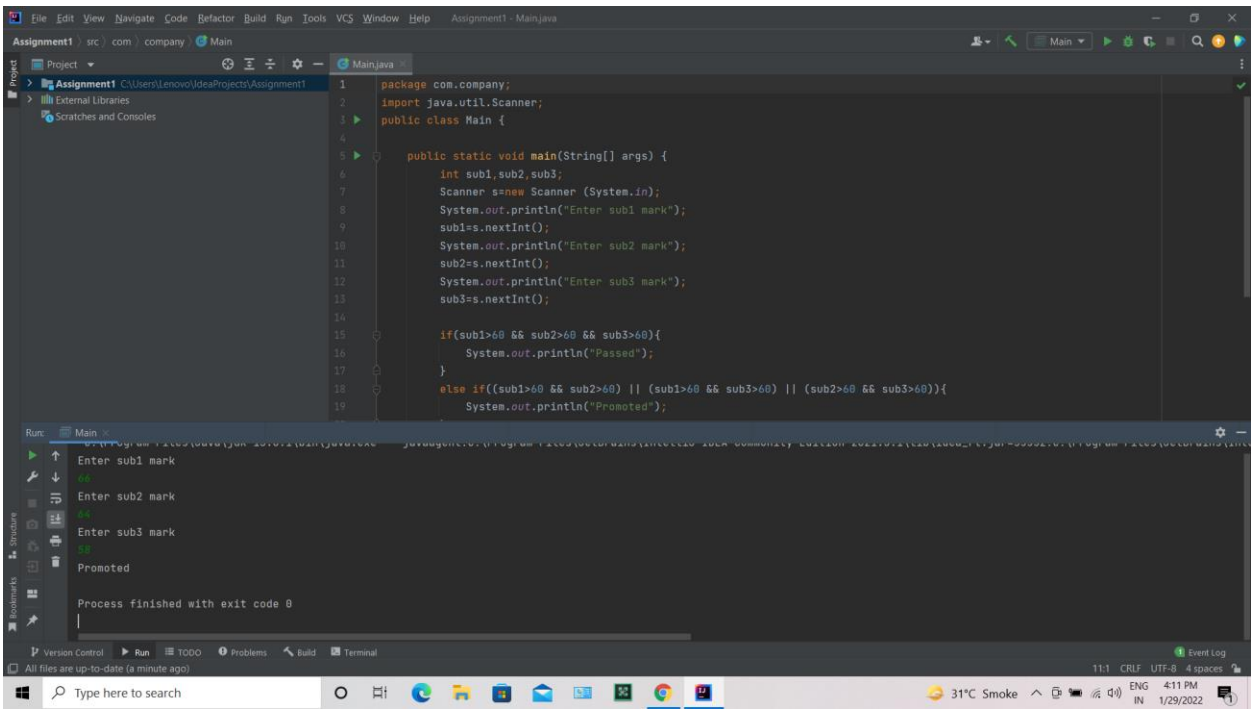
Q3


File Edit View Navigate Code Refactor Build Run Tools VCS Window Help
Assignments - Main.java
Assignments src com company Main
Main
Project
Assignments C:\Users\Lenovo\IdeaProjects\Assignments
.idea
out
src 100% classes, 27% lines covered
Assignments.iml
External Libraries
Scratches and Consoles
Main.java
package com.company;
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
double principle,rate,time;
Scanner s=new Scanner(System.in);
System.out.println("Enter the Principle");
principle=s.nextDouble();
System.out.println("Enter the rate");
rate=s.nextDouble();
System.out.println("Enter the time");
time=s.nextDouble();
double sim=(principle*rate*time)/100;
double com=principle*Math.pow(1.0+rate/100.0,time)-principle;
System.out.println(sim);
System.out.println(com);
}
}
Run: Main
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.3.1\lib\idea_rt.jar=57382:C:\Program Files\JetBrains\I
Enter the Principle
4
Enter the rate
6
Enter the time
2
0.48
0.4944000000000006
Process finished with exit code 0
Version Control
Run
TODO
Problems
Terminal
Build
Event Log
All files are up-to-date (moments ago)
12:1 CRLF UTF-8 5 spaces*
Type here to search
28°C Smoke
ENG IN
11:41 AM 1/28/2022

Q4



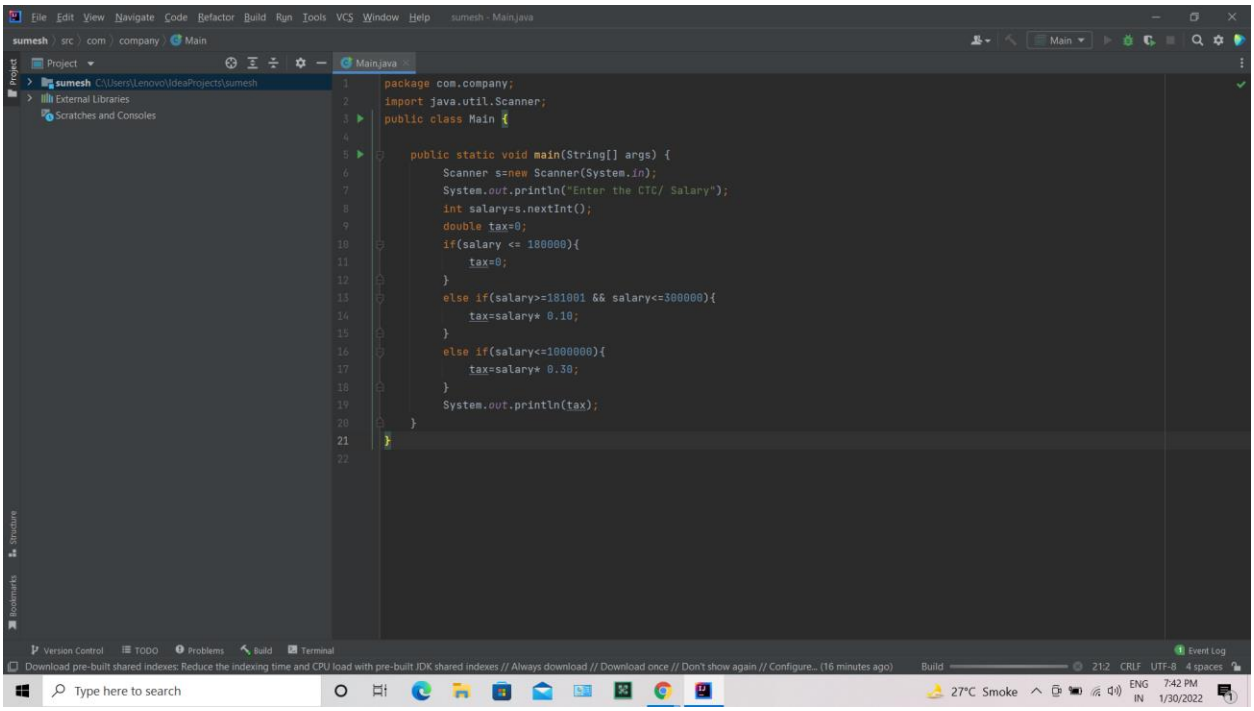
```java
package com.company;
import java.util.Scanner;
public class Main {

    public static void main(String[] args) {
        int sub1,sub2,sub3;
        Scanner s=new Scanner (System.in);
        System.out.println("Enter sub1 mark");
        sub1=s.nextInt();
        System.out.println("Enter sub2 mark");
        sub2=s.nextInt();
        System.out.println("Enter sub3 mark");
        sub3=s.nextInt();

        if(sub1>60 && sub2>60 && sub3>60){
            System.out.println("Passed");
        }
        else if((sub1>60 && sub2>60) || (sub1>60 && sub3>60) || (sub2>60 && sub3>60)){
            System.out.println("Promoted");
        }
        else{
            System.out.println("Failed");
        }
    }
}
```



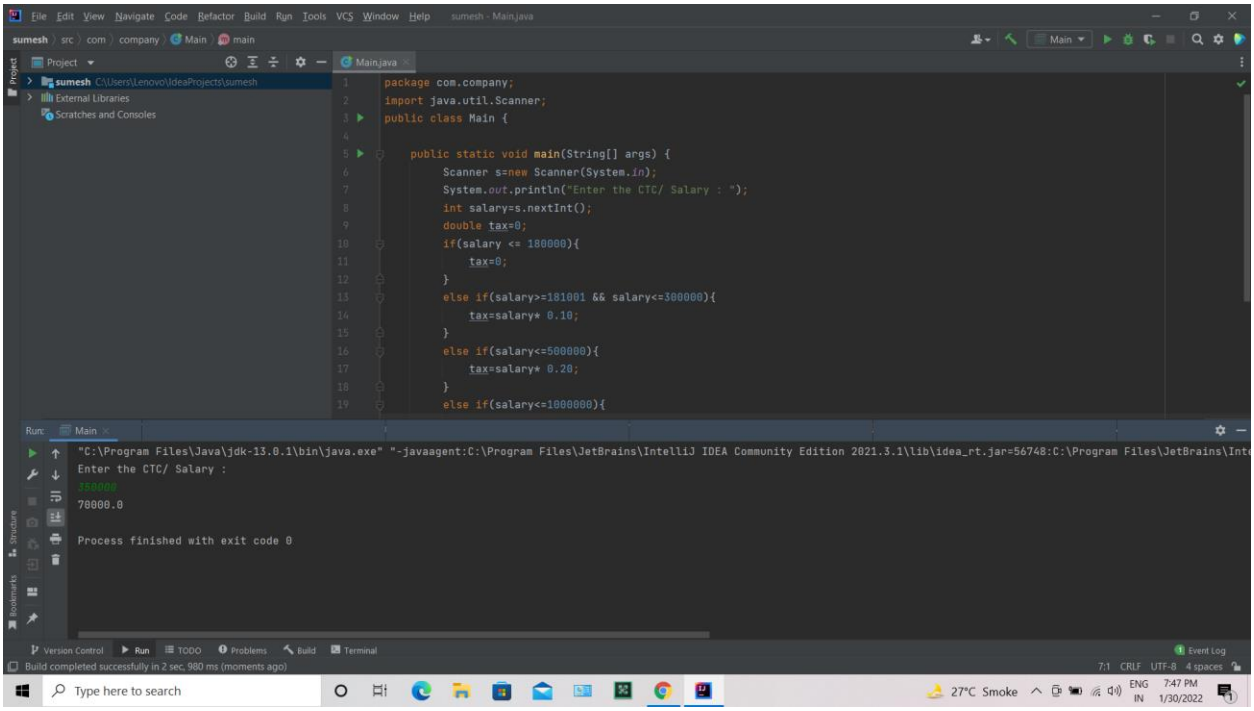
```java
package com.company;
import java.util.Scanner;
public class Main {

    public static void main(String[] args) {
        int sub1,sub2,sub3;
        Scanner s=new Scanner (System.in);
        System.out.println("Enter sub1 mark");
        sub1=s.nextInt();
        System.out.println("Enter sub2 mark");
        sub2=s.nextInt();
        System.out.println("Enter sub3 mark");
        sub3=s.nextInt();

        if(sub1>60 && sub2>60 && sub3>60){
            System.out.println("Passed");
        }
        else if((sub1>60 && sub2>60) || (sub1>60 && sub3>60) || (sub2>60 && sub3>60)){
            System.out.println("Promoted");
```

```
Enter sub1 mark
66
Enter sub2 mark
64
Enter sub3 mark
58
Promoted

Process finished with exit code 0
```

Q5



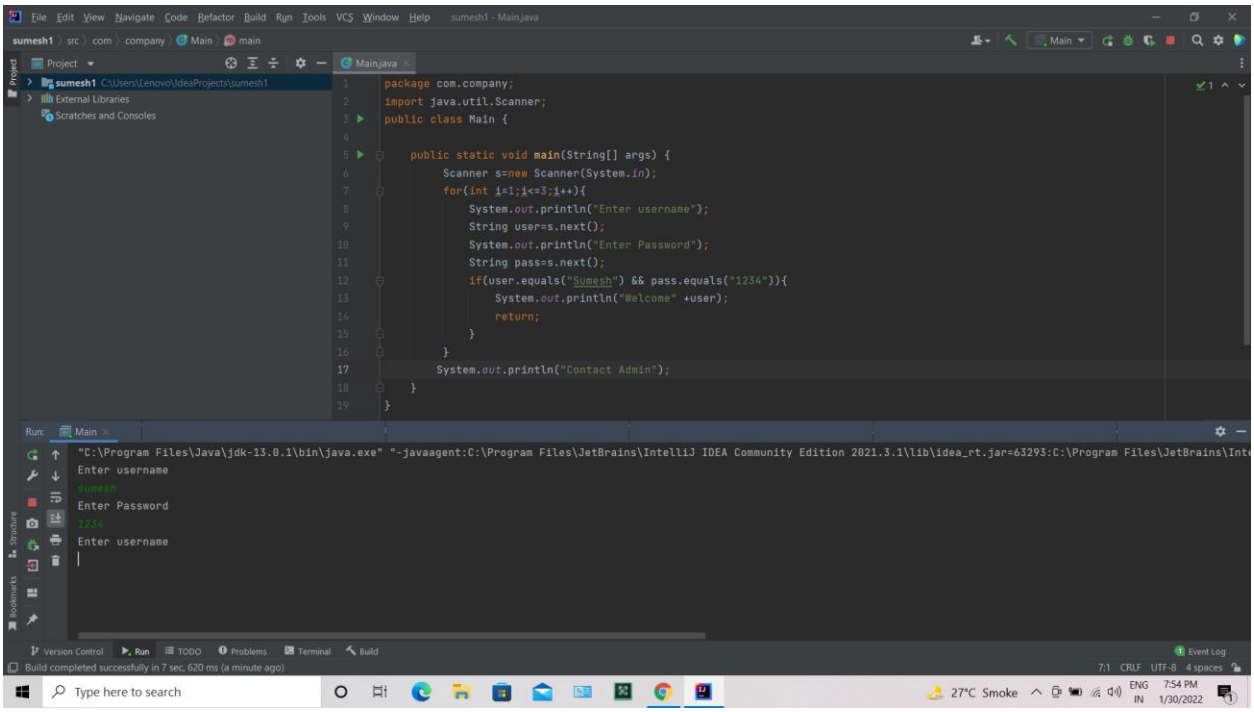
```java
package com.company;
import java.util.Scanner;
public class Main {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the CTC/ Salary");
        int salary=s.nextInt();
        double tax=0;
        if(salary <= 180000){
            tax=0;
        }
        else if(salary>=181001 && salary<=300000){
            tax=salary* 0.10;
        }
        else if(salary<=1000000){
            tax=salary* 0.30;
        }
        System.out.println(tax);
    }
}
```



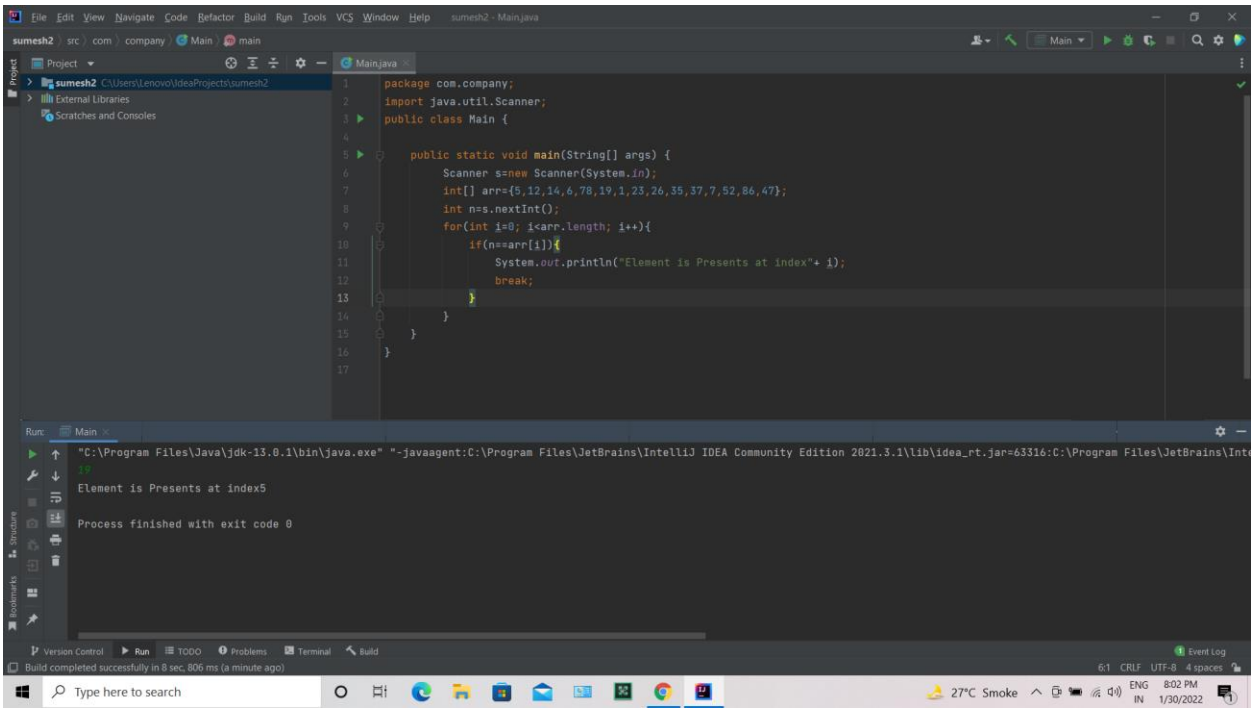
```java
package com.company;
import java.util.Scanner;
public class Main {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the CTC/ Salary : ");
        int salary=s.nextInt();
        double tax=0;
        if(salary <= 180000){
            tax=0;
        }
        else if(salary>=181001 && salary<=300000){
            tax=salary* 0.10;
        }
        else if(salary<=500000){
            tax=salary* 0.20;
        }
        else if(salary<=1000000){
```

```
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.3.1\lib\idea_rt.jar=56748:C:\Program Files\JetBrains\Int
Enter the CTC/ Salary :
350000
70000.0

Process finished with exit code 0
```

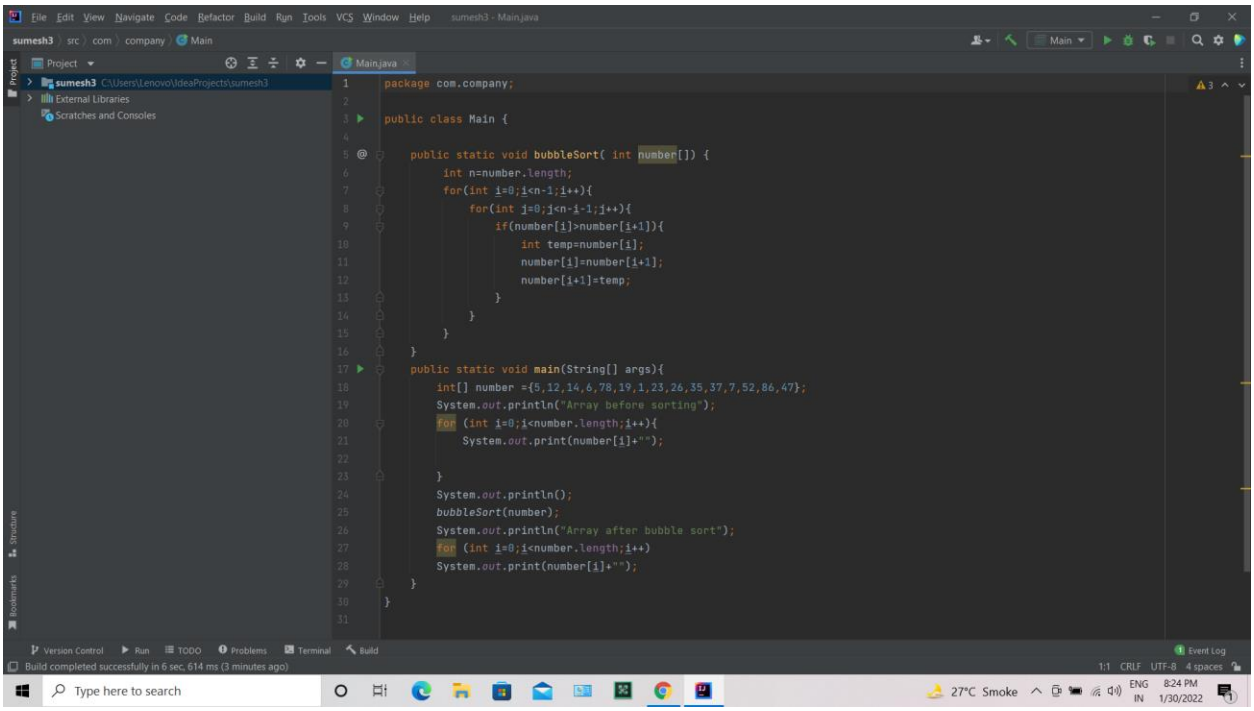
Q6


package com.company;
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
Scanner s=new Scanner(System.in);
for(int i=1;i<=3;i++){
System.out.println("Enter username");
String user=s.next();
System.out.println("Enter Password");
String pass=s.next();
if(user.equals("Sumesh") && pass.equals("1234")){
System.out.println("Welcome" +user);
return;
}
}
System.out.println("Contact Admin");
}
}
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.3.1\lib\idea_rt.jar=63293:C:\Program Files\JetBrains\Int
Enter username
sumesh
Enter Password
1234
Enter username

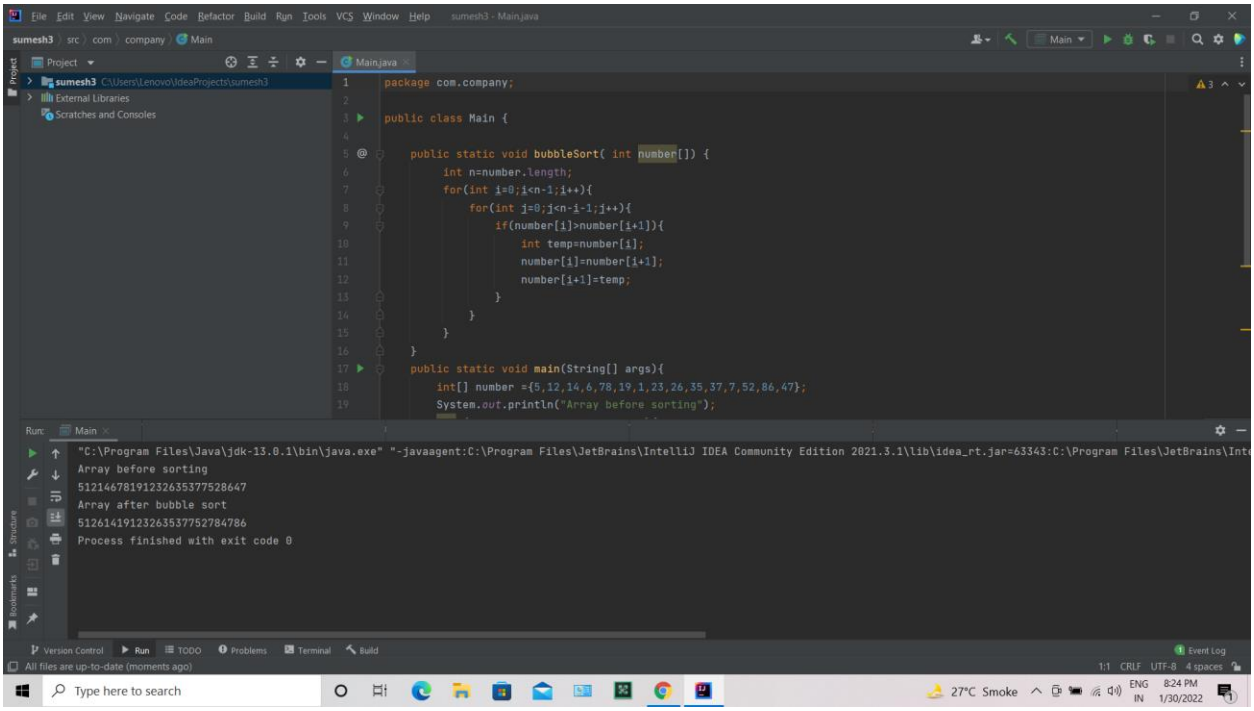
Q7


package com.company;
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
Scanner s=new Scanner(System.in);
int[] arr={5,12,14,6,78,19,1,23,26,35,37,7,52,86,47};
int n=s.nextInt();
for(int i=0; i<arr.length; i++){
if(n==arr[i]){
System.out.println("Element is Presents at index"+ i);
break;
}
}
}
}
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.3.1\lib\idea_rt.jar=63316:C:\Program Files\JetBrains\Int
19
Element is Presents at index5
Process finished with exit code 0

Q8



```java
package com.company;

public class Main {

    public static void bubbleSort( int number[]) {
        int n=number.length;
        for(int i=0;i<n-1;i++){
            for(int j=0;j<n-i-1;j++){
                if(number[j]>number[j+1]){
                    int temp=number[j];
                    number[j]=number[j+1];
                    number[j+1]=temp;
                }
            }
        }
    }
    public static void main(String[] args){
        int[] number ={5,12,14,6,78,19,1,23,26,35,37,7,52,86,47};
        System.out.println("Array before sorting");
        for (int i=0;i<number.length;i++){
            System.out.print(number[i]+"");

        }
        System.out.println();
        bubbleSort(number);
        System.out.println("Array after bubble sort");
        for (int i=0;i<number.length;i++)
        System.out.print(number[i]+"");
    }
}
```



```java
package com.company;

public class Main {

    public static void bubbleSort( int number[]) {
        int n=number.length;
        for(int i=0;i<n-1;i++){
            for(int j=0;j<n-i-1;j++){
                if(number[j]>number[j+1]){
                    int temp=number[j];
                    number[j]=number[j+1];
                    number[j+1]=temp;
                }
            }
        }
    }
    public static void main(String[] args){
        int[] number ={5,12,14,6,78,19,1,23,26,35,37,7,52,86,47};
        System.out.println("Array before sorting");
```

```
"C:\Program Files\Java\jdk-13.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.3.1\lib\idea_rt.jar=63343:C:\Program Files\JetBrains\Int
Array before sorting
5121467819123263537752864 7
Array after bubble sort
5126141912326353775278 4786
Process finished with exit code 0
```