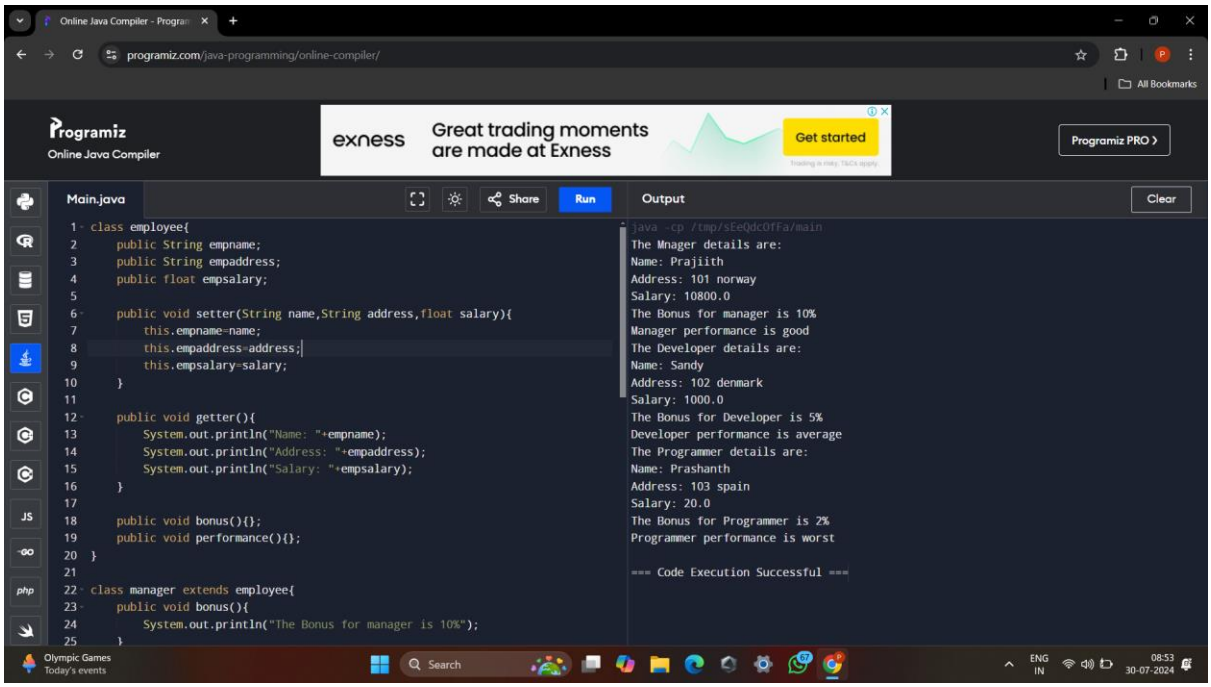
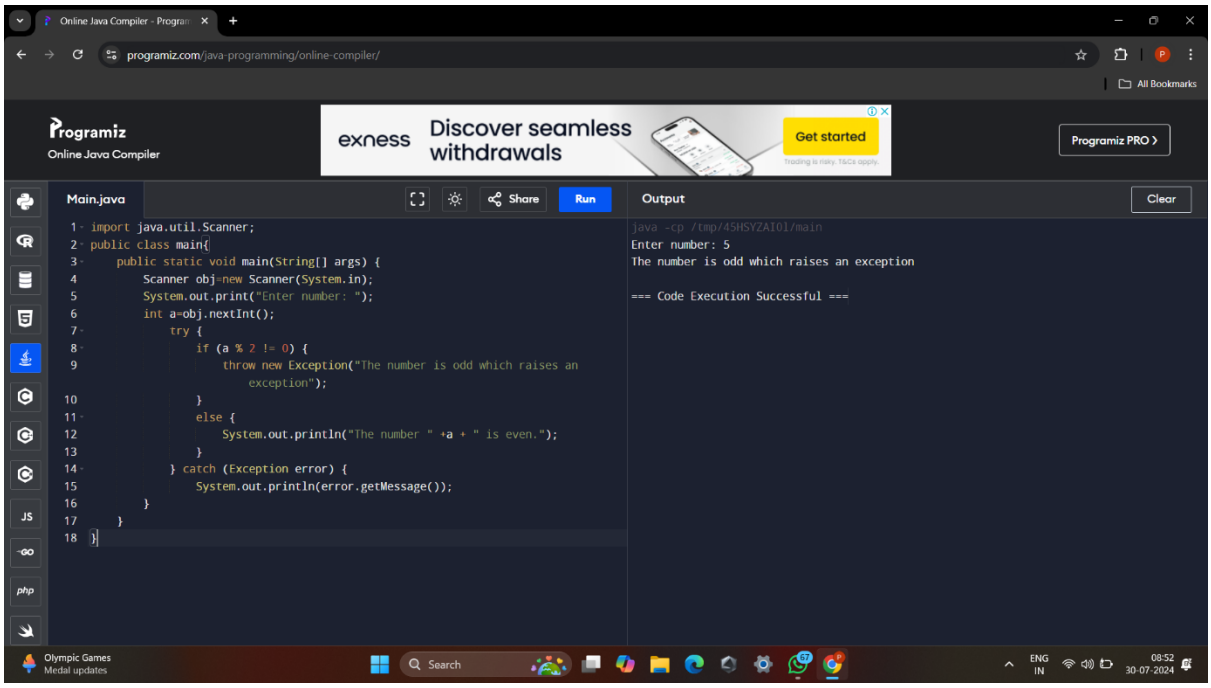
```
1. class employee{
    public String empname;
    public String empaddress;
    public float empsalary;

    public void setter(String name,String address,float salary){
        this.empname=name;
        this.empaddress=address;
        this.empsalary=salary;
    }

    public void getter(){
        System.out.println("Name: "+empname);
        System.out.println("Address: "+empaddress);
        System.out.println("Salary: "+empsalary);
    }

    public void bonus(){};
    public void performance(){};
}

class manager extends employee{
    public void bonus(){
        System.out.println("The Bonus for manager is 10%");
    }
    public void performance(){
        System.out.println("Manager performance is good");
    }
}

class developer extends employee{
```

```
    public void bonus(){
        System.out.println("The Bonus for Developer is 5%");
    }
    public void performance(){
        System.out.println("Developer performance is average");
    }
}

class programmer extends employee{
    public void bonus(){
        System.out.println("The Bonus for Programmer is 2%");
    }
    public void performance(){
        System.out.println("Programmer performance is worst");
    }
}

public class main{
    public static void main(String args[]){
        employee obj1=new employee();
        obj1.setter("Prajiith","101 norway",10800);
        System.out.println("The Mnager details are: ");
        obj1.getter();
        manager obj2=new manager();
        obj2.bonus();
        obj2.performance();
        obj1.setter("Sandy","102 denmark",1000);
        System.out.println("The Developer details are: ");
        obj1.getter();
        developer obj3=new developer();
        obj3.bonus();
```

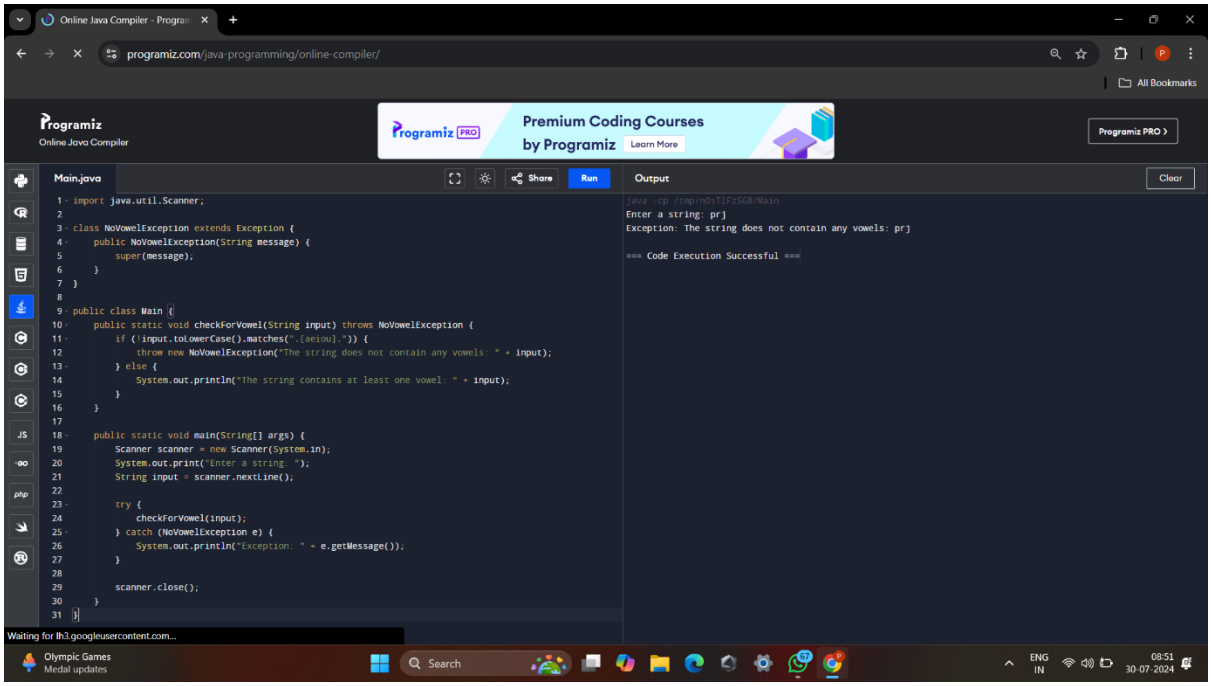
```
        obj3.performance();
        obj1.setter("Prashanth","103 spain",20);
        System.out.println("The Programmer details are: ");
        obj1.getter();
        programmer obj4=new programmer();
        obj4.bonus();
        obj4.performance();
    }
}
```



2.
```
import java.util.Scanner;
public class main{
    public static void main(String[] args) {
        Scanner obj=new Scanner(System.in);
        System.out.print("Enter number: ");
        int a=obj.nextInt();
            try {
                if (a % 2 != 0) {
                    throw new Exception("The number is odd which raises an exception");
                }
                else {
                    System.out.println("The number " +a + " is even.");
                }
            } catch (Exception error) {
                System.out.println(error.getMessage());
        }
    }
}
```



3.
```
import java.util.Scanner;

class NoVowelException extends Exception {
    public NoVowelException(String message) {
        super(message);
    }
}

public class Main {
    public static void checkForVowel(String input) throws NoVowelException {
        if (!input.toLowerCase().matches(".[aeiou]")) {
            throw new NoVowelException("The string does not contain any vowels: " + input);
        } else {
            System.out.println("The string contains at least one vowel: " + input);
        }
    }

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a string: ");
        String input = scanner.nextLine();

        try {
            checkForVowel(input);
        } catch (NoVowelException e) {
            System.out.println("Exception: " + e.getMessage());
        }

        scanner.close();
    }
}
```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Main.java
Share
Run
Output
Clear
import java.util.Scanner;
class NoVowelException extends Exception {
public NoVowelException(String message) {
super(message);
}
}
public class Main {
public static void checkForVowel(String input) throws NoVowelException {
if (!input.toLowerCase().matches(".[aeiou].")) {
throw new NoVowelException("The string does not contain any vowels: " + input);
} else {
System.out.println("The string contains at least one vowel: " + input);
}
}
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.print("Enter a string: ");
String input = scanner.nextLine();
try {
checkForVowel(input);
} catch (NoVowelException e) {
System.out.println("Exception: " + e.getMessage());
}
scanner.close();
}
}
/java -cp /tmp/nOsTlFzSG8/Main
Enter a string: prj
Exception: The string does not contain any vowels: prj
=== Code Execution Successful ===
Waiting for lh3.googleusercontent.com...
Olympic Games
Medal updates
Search
ENG
IN
08:51
30-07-2024