

```
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();

}

}

```

The screenshot shows a web browser window with the URL `programiz.com/java-programming/online-compiler/`. The page features a dark theme and includes a sidebar with icons for various programming languages (Python, JavaScript, PHP, etc.). The main area is divided into two panels: a code editor on the left and an output console on the right.

Code Editor (Main.java):

```

1 class employee{
2     public String empname;
3     public String empaddress;
4     public float empsalary;
5
6     public void setter(String name,String address,float salary){
7         this.empname=name;
8         this.empaddress=address;
9         this.empsalary=salary;
10    }
11
12    public void getter(){
13        System.out.println("Name: "+empname);
14        System.out.println("Address: "+empaddress);
15        System.out.println("Salary: "+empsalary);
16    }
17
18    public void bonus();
19    public void performance();
20 }
21
22 class manager extends employee{
23     public void bonus(){
24         System.out.println("The Bonus for manager is 10%");
25     }

```

Output Console:

```

java -cp /tmp/sEeQdc0ffa/main
The Mnager details are:
Name: Prajiith
Address: 101 norway
Salary: 10800.0
The Bonus for manager is 10%
Manager performance is good
The Developer details are:
Name: Sandy
Address: 102 denmark
Salary: 1000.0
The Bonus for Developer is 5%
Developer performance is average
The Programmer details are:
Name: Prashanth
Address: 103 spain
Salary: 20.0
The Bonus for Programmer is 2%
Programmer performance is worst

=== Code Execution Successful ===

```

The bottom of the browser window shows a Windows taskbar with the date and time as 30-07-2024, 08:53.

```

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());

        }

    }

}

```

The screenshot shows a web browser window with the URL `programiz.com/java-programming/online-compiler/`. The page features a dark theme and a sidebar on the left with icons for file management and language selection (Java, JS, PHP, etc.). The main area is divided into two panels: a code editor on the left and an output console on the right.

The code editor contains the following Java code:

```

1. import java.util.Scanner;
2. public class main{
3.     public static void main(String[] args) {
4.         Scanner obj=new Scanner(System.in);
5.         System.out.print("Enter number: ");
6.         int a=obj.nextInt();
7.         try {
8.             if (a % 2 != 0) {
9.                 throw new Exception("The number is odd which raises an
exception");
10.            }
11.            else {
12.                System.out.println("The number " +a + " is even.");
13.            }
14.        } catch (Exception error) {
15.            System.out.println(error.getMessage());
16.        }
17.    }
18. }

```

The output console on the right shows the execution results:

```

java -cp ./tmp/45HSYZA101/main
Enter number: 5
The number is odd which raises an exception
=== Code Execution Successful ===

```

The bottom of the image shows a Windows taskbar with the date and time set to 08:52 on 30-07-2024.

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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Output

Clear

1 import java.util.Scanner;
2
3 class NoVowelException extends Exception {
4 public NoVowelException(String message) {
5 super(message);
6 }
7 }
8
9 public class Main {
10 public static void checkForVowel(String input) throws NoVowelException {
11 if (!input.toLowerCase().matches("[aeiou].*")) {
12 throw new NoVowelException("The string does not contain any vowels: " + input);
13 } else {
14 System.out.println("The string contains at least one vowel: " + input);
15 }
16 }
17
18 public static void main(String[] args) {
19 Scanner scanner = new Scanner(System.in);
20 System.out.print("Enter a string: ");
21 String input = scanner.nextLine();
22
23 try {
24 checkForVowel(input);
25 } catch (NoVowelException e) {
26 System.out.println("Exception: " + e.getMessage());
27 }
28
29 scanner.close();
30 }
31 }

java -cp ./bin NoVowelException/Main
Enter a string: prj
Exception: The string does not contain any vowels: prj
=== Code Execution Successful ===

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IN

08:51
30-07-2024