

**Lab Session 07-13-2023**

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**OOP-Java**

```
package eh;

import java.util.Scanner;

import java.io.File;

import java.io.FileNotFoundException;

public class Eh {

    public static void main(String[] args) {

        Scanner s=new Scanner(System.in);

        System.out.println("Enter 2 Numbers:");

        int num1=s.nextInt();

        int num2=s.nextInt();

        try{

            System.out.println("Answer is : "+(num1/num2));

        }

        catch(ArithmeticException e){

            System.out.println(e.getMessage());

        }

        int[]array={90, 9, 10, 123};

        try{

            System.out.println(array[4]);

        }

        catch(ArrayIndexOutOfBoundsException e){

            System.out.println("Invalid Index" );

        }

        finally {

            for(int x:array){
```

```

System.out.println(x);
}
}
try {
File obj=new File("NewFile.txt");
Scanner s=new Scanner(obj);
while (s.hasNextLine()){
String data=s.nextLine();
System.out.println(data);
}
}
catch(FileNotFoundException e){
System.out.println(e.getMessage());
}
}
}

```

Abstract methodes

\*\*\*\*Movement\*\*\*\*

```

package pkg6_lab;

public abstract class Movement {

abstract void right();

abstract void up();

abstract void left();

abstract void down();

abstract void jump();

}

```

\*\*\*\*RegPlayerClas\*\*\*\*

```

package pkg6_lab;

public class RegPlayer extends Movement{

```

```

@Override
void right(){
    System.out.println("One space right");
}

@Override
void left(){
    System.out.println("One space left");
}

@Override
void up(){
    System.out.println("One space up");
}

@Override
void down(){
    System.out.println("One space down");
}

@Override
void jump(){
    System.out.println("Two space jump");
}
}

****OppPlayerClas****

package pkg6_lab;

public class OppPlayer extends Movement{
    @Override
    void right(){
        System.out.println("One space left");
    }

    @Override

```

```

void left(){
System.out.println("One space right");
}
@Override
void up(){
System.out.println("One space down");
}
@Override
void down(){
System.out.println("One space up");
}
@Override
void jump(){
System.out.println("One space right");
}
}
****FiveJumpClas*****

package pkg6_lab;

public class FiveJump extends Movement{
@Override
void right(){
System.out.println("One space right");
}
@Override
void left(){
System.out.println("One space left");
}
@Override
void up(){

```

```
System.out.println("One space up");
}
@Override
void down(){
System.out.println("One space down");
}
@Override
void jump(){
System.out.println("5 space right");
}
}
package pkg6_lab;
public class Main {
public static void main(String[] args) {
Movement p1=new RegPlayer();
p1.right();
Movement p3=new FiveJump();
p3.jump();
Movement p2=new OppPlayer();
p2.right();
}
}
```