

Lab Session 07-13-2023

TRDT Dulshan

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();
```

```
}
```

```
}
```