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CS – Summer 2022

Lab Exercise 2

```java
package P1;
import java.util.Formatter;
public class TwoDim {
    int x;
    int y;
    public TwoDim(){
        x=0;
        y=0;

    }
    public TwoDim(int x,int y){
        this.x=x;
        this.y=y;

    }
    public String toString(){
        Formatter f=new Formatter();
        String res =f.format(("%dx +%dy"),x,y).toS
        return res;
    }

}
```

```java
package P2;
import P1.TwoDim;
public class ThreeDim extends TwoDim{
    int z;
    public ThreeDim(){
        z=0;
    }
    public ThreeDim(int x, int y,int z){
        super(x, y);
        this.z=z;
    }

    public String toString(){

        String res =super.toString()+"+"+z+"z";
        return res;
    }
}
```

```java
package P;
import P1.TwoDim;
import P2.ThreeDim;

public class Driver {
    Run | Debug
    public static void main(String [] args){
        TwoDim obj2d=new TwoDim(3,4);
        ThreeDim obj3d=new ThreeDim(3,4,5);
        System.out.println( obj2d.toString());

        System.out.println( obj3d.toString());
        TwoDim obj;
        obj=obj3d;
    System.out.println( obj.toString());
        obj=obj2d;
     System.out.println(  obj.toString());
    }
}

// javac -d . TwoDim.java
// javac -d . ThreeDim.java
// javac -d . Driver.java
// java Driver
```

OUTPUT

FILE STRUCTURE CREATED

LabExerciseN...
- P
  - Driver.class
- P1
  - TwoDim.class
- P2
  - ThreeDim.class
- Driver.class
- Driver.java   1
- ThreeDim.java
- TwoDim.java   1
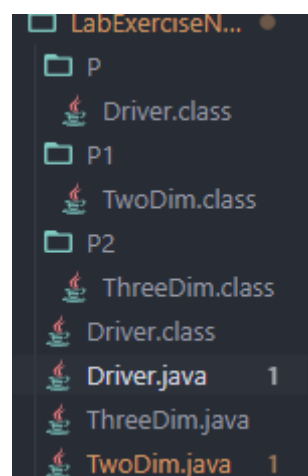
```
PS D:\ANDC\Sem-2\Java\Lab5\LabExerciseNo2> java P.Driver
3x +4y
3x +4y+5z
3x +4y+5z
3x +4y
```