IK22

Praktikum Object dan Class Bagian-2



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PROGRAM STUDI PENDIDIKAN ILMU KOMPUTER FAKULTAS PENDIDIKAN MATEMATIKA DAN ILMU PENGETAHUAN ALAM UNIVERSITAS PENDIDIKAN INDONESIA 1 APRIL 2022

Implementasi dan Hasil

Implementasi dan Hasil

- 1. Class PersegiPanjang
 - UML Diagram

```
StopWatch

startTime : long
stopTime : long
running : boolean

StopWatch()
start() : void
stop() : void
getElapsedTimeSecs(): long
```

Sourcecode (Class buatan)

```
import java.util.Scanner;
public class StopWatch {
   private long startTime = 0;
   private long stopTime = 0;
   private boolean running = false;
   StopWatch(){
   public void start() {
     this.startTime = System.currentTimeMillis();
    this.running = true;
   public void stop() {
    this.stopTime = System.currentTimeMillis();
this.running = false;
   public long getElapsedTimeSecs() {
     Long elapsed;
     if (running) {
       elapsed = ((System.currentTimeMillis() - startTime) / 1000);
       elapsed = ((stopTime - startTime) / 1000);
     return elapsed;
```

- Sourcecode (Class Utama)

- Output

```
S
Q
10 detik
```

- 2. Class Linear Equation
 - UML Diagram

```
SegitigaSikuSiku

a,b,c,d,e,f: int

LinearEquation()
getA(): int
getB(): int
getC(): int
getC(): int
getF(): int
getF(): int
isSolvable(): boolean
getX: double
```

getY: double

Sourcecode (Class Buatan)

```
blic class Solution [
  public static class LinearEquation{
      private int a,b,c,d,e,f;
      LinearEquation(){
       public LinearEquation(int a, int b, int c, int d, int e, int f) {
           this.a=a;
this.b=b;
this.c=c;
           this.d=d;
            this.e=e;
this.f=f;
       public int getA(){
       public int getB(){
   return b;
       public int getC(){
       public int getD(){
           return d;
       public int getE(){
    return e;
       public int getF(){
   return f;
       public boolean isSolvable(){
   return (((this.a) * (this.d)) - ((this.b) * (this.c))) != 0;
       public double getX() {
   return ((this.e) * (this.d)) - ((this.b) * (this.f)) / ((this.a) * (this.d) - (this.
       public double getY() {
   return ((this.a) * (this.f)) - ((this.e) * (this.c)) / ((this.a) * (this.d) - (this.e)
```

- Sourcecode (Class Utama)

```
public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
    int a=sc.nextInt();
    int b=sc.nextInt();
    int c=sc.nextInt();
    int d=sc.nextInt();
    int f=sc.nextInt();
    int f=sc.nextInt();

    LinearEquation linearEquation=new LinearEquation(a, b, c, d, e, f);
    if(linearEquation.isSolvable()){
        System.out.println("x="+linearEquation.getX());
        System.out.println("y="+linearEquation.getY());
    }else{
        System.out.println("Persamaan tidak memiliki solusi");
    }
}
```

- Score

Problem	Language	Time	Result	Score
Linear Equation 3	Java 8	a day ago	Accepted 🗸	100