# LAPORAN PRAKTIKUM PEMROGRAMAN 2



# Oleh:

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# PRODI TEKNOLOGI INFORMASI JURUSAN PENDIDIKAN TEKNIK ELEKTRONIKA DAN INFORMATIKA FAKULTAS TEKNIK UNIVERSITAS NEGERI YOGYAKARTA 2020

# A. Soal 9.1

1. UML Diagram

```
Rectangle

+ height: double
+ width: double

+ Rectangle()
+ Rectangle(w: double, h: double)
+ getArea(): double
+ getPerimeter(): double
```

#### 2. Run program

#### **B. Soal 9.2**

1. UML Diagram

```
+ symbol: string
+ name: string
+ previousClosingPrice: double
+ currentPrice: double

+ Stock(name: string, symbol: string, price: double, prevPrive): double
+ getChangePercent(): double
```

#### 2. Run program

E:\SEKOLAH\UNY\Semester 2\PEMROGRAMAN 2\Week 2\9.2>java soal\_9\_2
The price-change percentage is 0.44%

# C. Soal 9.3

1. UML Diagram

cobaDate
+ date: Date

2. Run program

```
E:\SEKOLAH\UNY\Semester 2\PEMROGRAMAN 2\Week 2\9.3>java soal_9_3
Thu Jan 01 07:00:10 ICT 1970
Thu Jan 01 07:01:40 ICT 1970
Thu Jan 01 07:16:40 ICT 1970
Thu Jan 01 09:46:40 ICT 1970
Fri Jan 02 10:46:40 ICT 1970
Mon Jan 12 20:46:40 ICT 1970
Mon Apr 27 00:46:40 ICT 1970
Sat Mar 03 16:46:40 ICT 1973
```

### **D. Soal 9.7**

1. UML Diagram

```
Account
- id: int
- balance: double
- annualInterestRate: double
- dateCreated: Date
+ Account()
+ Account(id: int, balance: int)
+ getId(): int
+ getBalance(): double
+ getAnnualInterestRate(): double
+ getDateCreated(): Date
+ setId(id: int): void
+ setBalance(balance: double): void
+ setAnnualInterestRate(annualInterestRate: double): void
+ getMonthlyInterestRate(): double
+ getMonthlyInterest(): double
+ withdraw
+ deposit(total: double): void
```

#### 2. Run program

```
E:\SEKOLAH\UNY\Semester 2\PEMROGRAMAN 2\Week 2\9.7>java soal_9_7

YOUR ACCOUNT

Balance: $20500.00

Monthly interest: 76.88

Date created: Wed Feb 12 00:03:53 ICT 2020
```

# E. Soal 9.8

1. UML Diagram

```
Fan
+ SLOW: int = 1
+ MEDIUM:: int = 2
+ FAST: int = 3
- speed: int = SLOW
- on: boolean = false
- radius: double = 5
- color: string = "blue"
+ Fan()
+ getSpeed(): int
+ getOn: boolean
+ getRadius(): double
+ getColor(): string
+ setSpeed(speed: int): void
+ setOn(on: Boolean): void
+ setRadius(radius: double): void
+ setColor(color: string): void
+ toString(): string
```

#### 2. Run program

```
E:\SEKOLAH\UNY\Semester 2\PEMROGRAMAN 2\Week 2\9.8>java soal_9_8
The fan speed: 3 , color: yellow , radius: 10.0
The fan color: blue , radius: 5.0. Fan is off
```