# 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): 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
<u>SLOW: int = 1</u>
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
```