LAPORAN PRAKTIKUM

PEMROGRAMAN 3

Oleh:

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PRODI TEKNOLOGI INFORMASI

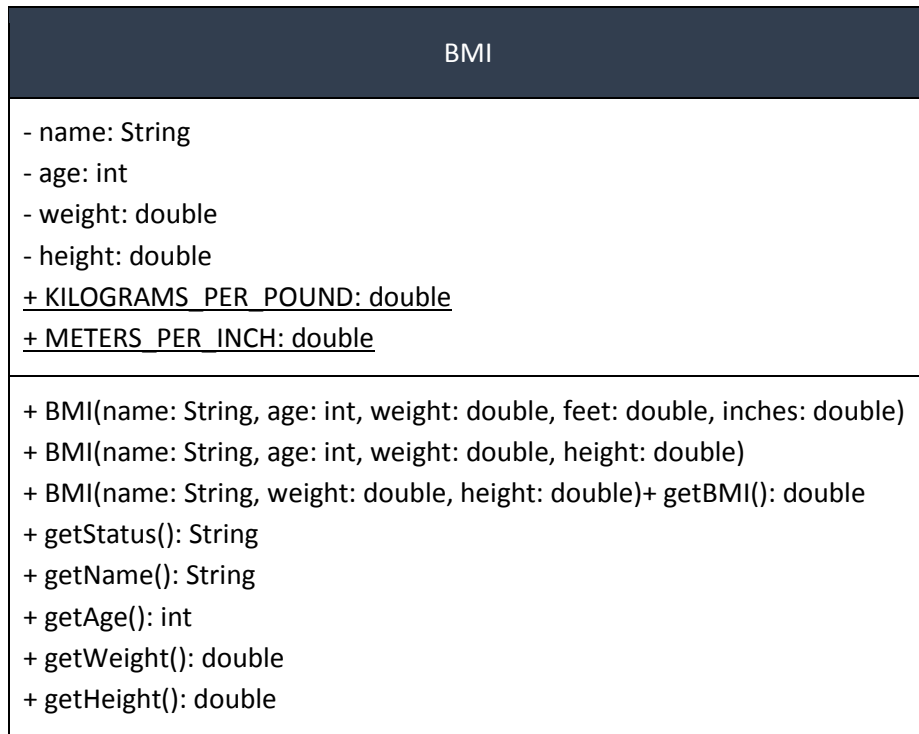**JURUSAN PENDIDIKAN TEKNIK ELEKTRONIKA DAN INFORMATIKA**

FAKULTAS TEKNIK

UNIVERSITAS NEGERI YOGYAKARTA

2020

A. Soal 10.2

1. UML Diagram

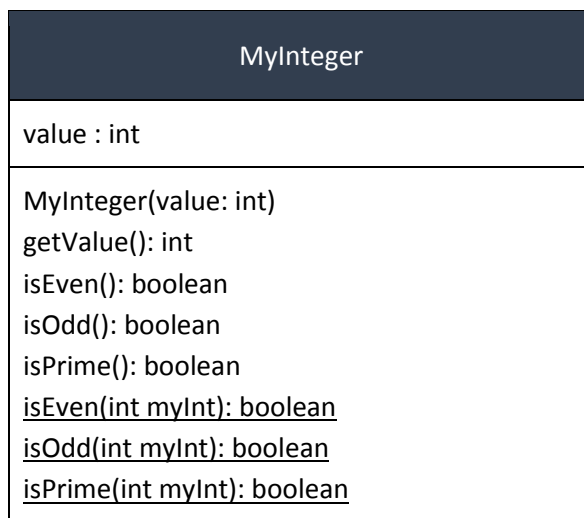| BMI |
| --- |
| - name: String
- age: int
- weight: double
- height: double
<u>+ KILOGRAMS_PER_POUND: double</u>
<u>+ METERS_PER_INCH: double</u> |
| + BMI(name: String, age: int, weight: double, feet: double, inches: double)
+ BMI(name: String, age: int, weight: double, height: double)
+ BMI(name: String, weight: double, height: double)+ getBMI(): double
+ getStatus(): String
+ getName(): String
+ getAge(): int
+ getWeight(): double
+ getHeight(): double |

2. Run program

```
E:\SEKOLAH\UNY\Semester 2\PEMROGRAMAN 2\Assign\Week 3\10.2>java soal_10_2
Maftuh BMI is: 23
```

B. Soal 10.3

1. UML Diagram

MyInteger
value : int
MyInteger(value: int) getValue(): int isEven(): boolean isOdd(): boolean isPrime(): boolean <u>isEven(int myInt): boolean</u> <u>isOdd(int myInt): boolean</u> <u>isPrime(int myInt): boolean</u>

```
isEven(MyInteger myInt): boolean
isOdd(MyInteger myInt): boolean
isPrime(MyInteger myInt): boolean
equals(int myInt): boolean
equals(MyInteger myInt): boolean
parseInt(char[] values): int
parseInt(String value): int
```

2. Run program

```
E:\SEKOLAH\UNY\Semester 2\PEMROGRAMAN 2\Assign\Week 3\10.3>java soal_10_3
int1 value is 4
int2 value is 5

is int1 value Even? true
is int1 value Odd? false
is int1 value Prime? false
is int2 value Even? false
is int2 value Odd? true
is int2 value Prime? true

is 6 value Even? true
is 6 value Odd? false
is 6 value Prime? false
is 7 value Even? false
is 7 value Odd? true
is 7 value Prime? true

is int1 Even? true
is int1 Odd? false
is int1 Prime? false
is int2 Even? false
is int2 Odd? true
is int2 Prime? true

is int1 value equals to 4? true
is int2 value equals to 4? false
is int1 equals to int2? false

result of parseInt(['1', '2', '3']) is 6
result of parseInt(456) is 456
```
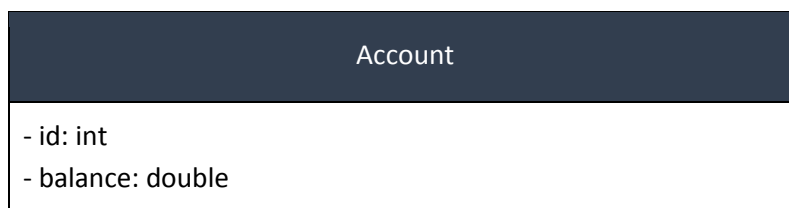
C. Soal 10.7

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\Assign\Week 3\10.7>java soal_10_7

Enter an ID: 11
Wrong ID, enter the correct one.
Enter an ID: 2

Main menu
1: check balance
2: withdraw
3: deposit
4: exit
Enter a choice: 1
Your balance is: 100.0

Main menu
1: check balance
2: withdraw
3: deposit
4: exit
Enter a choice: 2
Enter ammount to withdraw: 102
Your balance is insufficient.

Main menu
1: check balance
2: withdraw
3: deposit
4: exit
Enter a choice: 2
Enter ammount to withdraw: 3
Success withdraw 3.0

Main menu
1: check balance
2: withdraw
3: deposit
4: exit
Enter a choice: 1
Your balance is: 97.0

Main menu
1: check balance
2: withdraw
3: deposit
4: exit
Enter a choice: 3
Enter ammount to deposit: 20
Success deposit 20.0
```

```
Main menu
1: check balance
2: withdraw
3: deposit
4: exit
Enter a choice: 1
Your balance is: 117.0

Main menu
1: check balance
2: withdraw
3: deposit
4: exit
Enter a choice: 4

Enter an ID: 5

Main menu
1: check balance
2: withdraw
3: deposit
4: exit
Enter a choice: 1
Your balance is: 100.0

Main menu
1: check balance
2: withdraw
3: deposit
4: exit
Enter a choice:
```
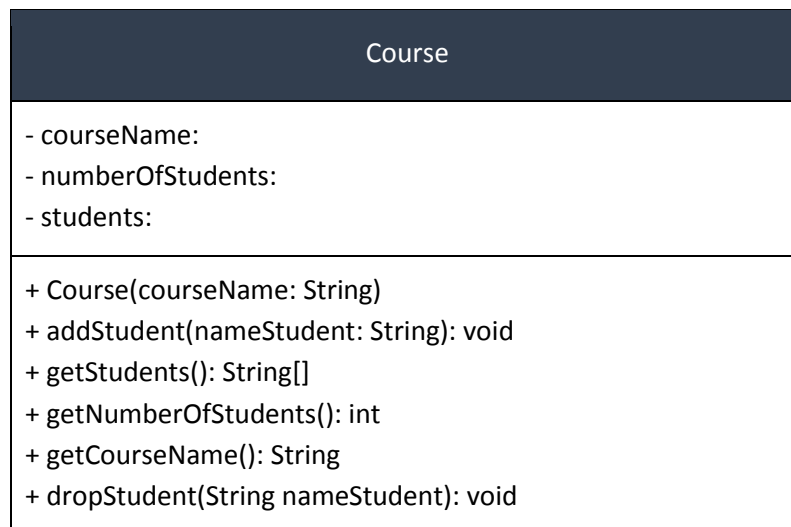
D. Soal 10.9

1. UML Diagram

Course
- courseName: - numberOfStudents: - students:
+ Course(courseName: String) + addStudent(nameStudent: String): void + getStudents(): String[] + getNumberOfStudents(): int + getCourseName(): String + dropStudent(String nameStudent): void

2. Run program

```
E:\SEKOLAH\UNY\Semester 2\PEMROGRAMAN 2\Assign\Week 3\10.9>java soal_10_9
Jumlah students: 1
Jumlah students: 2
Students di Course Satu: Maftuh Haha

Nama tidak ditemukan.
Jumlah students: 1
Students di Course Satu: Haha
```