

# **Tugas Pemrograman Berorientasi Objek**



**Muhamad Salman Adhim Baqy**

**A11.2020.12641**

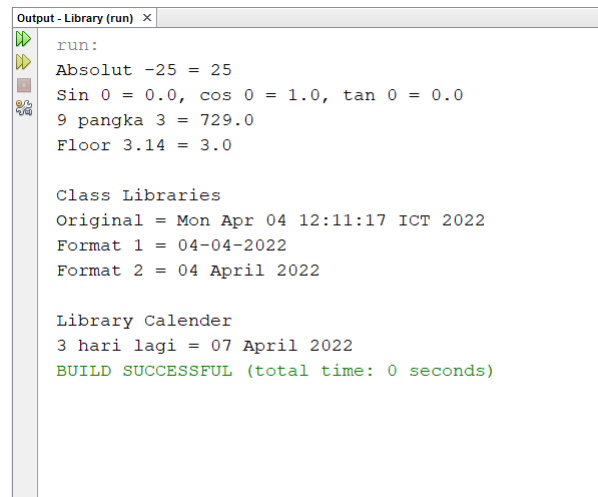
**Fakultas Ilmu Komputer**

**Program Studi Teknik Informatika**

**Universitas Dian Nuswantoro**

**2022**

## 1. Library



```
Output - Library (run) x
run:
Absolut -25 = 25
Sin 0 = 0.0, cos 0 = 1.0, tan 0 = 0.0
9 pangka 3 = 729.0
Floor 3.14 = 3.0

Class Libraries
Original = Mon Apr 04 12:11:17 ICT 2022
Format 1 = 04-04-2022
Format 2 = 04 April 2022

Library Calender
3 hari lagi = 07 April 2022
BUILD SUCCESSFUL (total time: 0 seconds)
```

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package library;

import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.Date;

/**
 *
 * @author adhim
 */
public class Library {

    /**
     * @param <Date>
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // TODO code application logic here
        System.out.println("Absolut -25 = " + Math.abs(-25));
        System.out.println("Sin 0 = " + Math.sin(0) + ", cos 0 = " + Math.cos(0) + ", tan 0 = " +
Math.tan(0));
        System.out.println("9 pangka 3 = " + Math.pow(9, 3));
        System.out.println("Floor 3.14 = " + Math.floor(3.14));

        System.out.println("\nClass Libraries");
        Date tanggal = new Date();
        System.out.println("Original = " + tanggal);
    }
}
```

```

SimpleDateFormat sdf1 = new SimpleDateFormat("dd-MM-yyyy");
SimpleDateFormat sdf2 = new SimpleDateFormat("dd MMMM YYYY");
System.out.println("Format 1 = " + sdf1.format(tanggal));
System.out.println("Format 2 = " + sdf2.format(tanggal));

System.out.println("\nLibrary Calender");
Calendar cal = Calendar.getInstance();
cal.add(Calendar.DATE, 3);
Date tigaHariLagi = cal.getTime();
System.out.println("3 hari lagi = " + sdf2.format(tigaHariLagi));

}

}

```

## 2. Inherited Fundamental

```

Speed = 10
Gear = 2
Seat height = 20

```

Bicycle.java

```

public class Bicycle {

    int speed = 0;
    int gear = 0;

    void changeGear(int newValue){
        gear += newValue;
        System.out.println("Gear = " + gear);
    }

    void speedUp(int increament){
        speed += increament;
        System.out.println("Speed = " + speed);
    }

}

```

mountainBike.java

```
public class mountainBike extends Bicycle{
    int seatHeight;

    public void setHeight(int newValue){
        seatHeight = newValue;
        System.out.println("Seat height = "+ seatHeight);
    }
    public static void main(String[]args) {
        mountainBike mb = new mountainBike();
        mb.speedUp(10); // method dari superclass
        mb.changeGear(2); // method dari superclass
        mb.setHeight(20); // method dari dia sendiri atau subclass
    }
}
```