

- Pemilihan

```

package JS1;
import java.util.Scanner;

public class Pemilihan {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.println("=====");
        System.out.println("Program Menghitung Nilai Akhir");
        System.out.println("=====");
        System.out.print("Masukkan Nilai Tugas : ");
        int tugas = sc.nextInt();
        System.out.print("Masukkan Nilai UTS : ");
        int uts = sc.nextInt();
        System.out.print("Masukkan Nilai UAS : ");
        int uas = sc.nextInt();
        System.out.println("=====");

        float nilaiAkhir = (float) ((0.2*tugas) + (0.35*uts) + (0.45*uas));
        String nilaiHuruf;

        if (nilaiAkhir > 80 && nilaiAkhir <= 100){
            nilaiHuruf = "A";
            System.out.println("Nilai Akhir : " + nilaiAkhir);
            System.out.println("Nilai Huruf : " + nilaiHuruf);
        } else if (nilaiAkhir > 73 && nilaiAkhir <= 80){
            nilaiHuruf = "B+";
            System.out.println("Nilai Akhir : " + nilaiAkhir);
            System.out.println("Nilai Huruf : " + nilaiHuruf);
        } else if (nilaiAkhir > 65 && nilaiAkhir <= 73){
            nilaiHuruf = "B";
            System.out.println("Nilai Akhir : " + nilaiAkhir);
            System.out.println("Nilai Huruf : " + nilaiHuruf);
        } else if (nilaiAkhir > 60 && nilaiAkhir <= 65){
            nilaiHuruf = "C+";
            System.out.println("Nilai Akhir : " + nilaiAkhir);
        }

        System.out.println("=====");
    }
}

```

Run: Pemilihan

```

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Progra
=====
Program Menghitung Nilai Akhir
=====
Masukkan Nilai Tugas : 99
Masukkan Nilai UTS : 89
Masukkan Nilai UAS : 86
=====
Nilai Akhir : 89.65
Nilai Huruf : A
=====

Process finished with exit code 0

```

- Perulangan

```

package JS1;
import java.util.Scanner;

public class Perulangan {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Masukkan NIM Anda : ");
        int nim = sc.nextInt();
        int digit = nim % 100;

        if (digit < 10){
            digit += 10;
        }

        for (int i = 1; i <= digit; i++){
            if (i % 7 == 1){
                System.out.print("Senin ");
            } else if (i % 7 == 2){
                System.out.print("Selasa ");
            } else if (i % 7 == 3){
                System.out.print("Rabu ");
            } else if (i % 7 == 4){
                System.out.print("Kamis ");
            } else if (i % 7 == 5){
                System.out.print("Jumat ");
            } else if (i % 7 == 6){
                System.out.print("Sabtu ");
            } else {
                System.out.print("Minggu ");
            }
        }
    }
}

```

Run: Perulangan

```

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\I
Masukkan NIM Anda : 2141720114
Senin Selasa Rabu Kamis Jumat Sabtu Minggu
Process finished with exit code 0

```

- Array

The screenshot shows an IDE with a Java file named `Array.java`. The code defines a `main` method that initializes an array of flower prices and a 2D array of stock for four different flower types. It then uses nested loops to calculate the total revenue for each flower type and the overall total.

```
package JS1;

public class Array {
    public static void main(String[] args) {
        System.out.println("Toko Bunga Royale Garden");
        System.out.println("=====");
        System.out.println("Laporan Stock Bunga");
        System.out.println("=====");

        int harga[] = {75000, 50000, 60000, 10000};
        int stock[][] = {
            {10, 5, 15, 7},
            {6, 11, 9, 12},
            {2, 10, 10, 5},
            {5, 7, 12, 9}
        };

        int algonema = 0, keladi = 0, aloccasia = 0, mawar = 0, pendapatan = 0, totalBunga;

        for (int i = 0; i < 4; i++) {
            for (int j = 0; j < 4; j++) {
                if (j == 0) {
                    algonema += stock[i][j];
                } else if (j == 1) {
                    keladi += stock[i][j];
                } else if (j == 2) {
                    aloccasia += stock[i][j];
                } else {
                    mawar += stock[i][j];
                }
            }
        }

        totalBunga = (algonema + keladi + aloccasia + mawar);

        System.out.println("Jumlah Bunga di Seluruh Cabang: " + totalBunga);
        System.out.println("Jumlah Bunga Algonema : " + algonema);
    }
}
```

The output of the program is as follows:

```
Toko Bunga Royale Garden
=====
Laporan Stock Bunga
=====
Jumlah Bunga di Seluruh Cabang: 135
Jumlah Bunga Algonema : 23
Jumlah Bunga Keladi : 33
Jumlah Bunga Aloccasia : 46
Jumlah Bunga Mawar : 33
Total Pendapatan Royale Gareden 1 Jika Semua Bunga Terjual Habis adalah Rp: 1745000

Process finished with exit code 0
```

- Fungsi

The screenshot shows an IDE with a Java file named `Fungsi.java`. The code defines a `main` method that uses a `Scanner` to take user input and calls functions to display a menu and calculate the total revenue of a flower shop.

```
package JS1;

public class Fungsi {
    public static String toko[] = {"RoyalGarden1", "RoyalGarden2", "RoyalGarden3", "RoyalGarden4"};
    public static int stock[][] = {
        {10, 5, 15, 7},
        {6, 11, 9, 12},
        {2, 10, 10, 5},
        {5, 7, 12, 9}
    };
};

static java.util.Scanner sc = new java.util.Scanner(System.in);

public static void main(String[] args) {
    while (true) {
        System.out.println("=====");
        System.out.println("Selamat Datang Di Royale Garden");
        System.out.println("=====");
        System.out.println("Menu :");
        System.out.println("1. Menampilkan Stock Bunga");
        System.out.println("2. Menampilkan Seluruh Stock Bunga di Seluruh Cabang");
        System.out.println("3. Exit");

        System.out.println("Pilihan : ");
        int menu = sc.nextInt();

        if (menu == 1) {
            menampilkanStockBunga();
        } else if (menu == 2) {
            menampilkanSeluruhStock();
        } else if (menu == 3) {
            break;
        } else {
            System.out.println("Inputan Tidak Valid !");
        }
    }
}
```

The output of the program is as follows:

```
=====
Selamat Datang Di Royale Garden
=====
Menu :
1. Menampilkan Stock Bunga
2. Menampilkan Seluruh Stock Bunga di Seluruh Cabang
3. Exit
Pilihan : 1
-----
|               | Aglonema | Keladi | Aloccasia | Mawar |
|-----|-----|-----|-----|-----|
RoyalGarden1    10         5         15         7
RoyalGarden2     6        11         9        12
RoyalGarden3     2        10        10         5
RoyalGarden4     5         7        12         9
=====
Selamat Datang Di Royale Garden
=====
Menu :
1. Menampilkan Stock Bunga
2. Menampilkan Seluruh Stock Bunga di Seluruh Cabang
3. Exit
Pilihan : 2
Jumlah Bunga di Seluruh Cabang: 135
```

```
package JS1;

public class Fungsi {
    public static String toko[] = {"RoyaGarden1","RoyaGarden2","RoyaGarden3","RoyaGarden4"};
    public static int stock[][] = {
        {10, 5, 15, 7},
        {6, 11, 9, 12},
        {2, 10, 10, 5},
        {5, 7, 12, 9}
    };
};

static java.util.Scanner sc = new java.util.Scanner(System.in);

public static void main(String[] args) {
    while (true){
        System.out.println("=====");
        System.out.println("Selamat Datang Di Royale Garden");
        System.out.println("=====");
        System.out.println("Menu :");
        System.out.println("1. Menampilkan Stock Bunga");
        System.out.println("2. Menampilkan Seluruh Stock Bunga di Seluruh Cabang");
        System.out.println("3. Exit");
        System.out.println("Pilihan : ");
        int menu = sc.nextInt();

        if (menu == 1){
            menampilkanStockBunga();
        } else if (menu == 2){
            menampilkanSeluruhStock();
        } else if (menu == 3){
            break;
        } else {
            System.out.println("Inputan Tidak Valid !");
        }
    }
}
```

Selamat Datang Di Royale Garden

=====

Menu :

1. Menampilkan Stock Bunga

2. Menampilkan Seluruh Stock Bunga di Seluruh Cabang

3. Exit

Pilihan : 2

Jumlah Bunga di Seluruh Cabang: 135

Jumlah Bunga Algonema : 23

Jumlah Bunga Keladi : 33

Jumlah Bunga Alocasia : 46

Jumlah Bunga Mawar : 33

=====

Selamat Datang Di Royale Garden

=====

Menu :

1. Menampilkan Stock Bunga

2. Menampilkan Seluruh Stock Bunga di Seluruh Cabang

3. Exit

Pilihan : 3

Process finished with exit code 0

- Tugas 1

```
package JS1;

public class Tugas_1 {
    public static void main(String[] args) {
        int tarif = 4500;
        double diskon = 0.05;
        int total1 = 0, total2 = 0;
        String nama [] = {"Ani", "Budi", "Bina", "Cita"};
        int kg [] = {4, 15, 6, 11};

        for (int i = 0; i < kg.length; i++){
            if (kg[i] > 10){
                System.out.print(nama[i] + ": Rp. ");
                double potongan = kg[i] * tarif * diskon;
                System.out.println((kg[i] * tarif) - (int)potongan + ",00");
                total1 += (kg[i] * tarif) - (int)potongan;
            } else {
                System.out.print(nama[i] + ": Rp. ");
                System.out.println(kg[i] * tarif + ",00");
                total2 += kg[i] * tarif;
            }
        }
        System.out.println("Pendapatan Smile Laundry : Rp." + (total1+total2) + ",00");
    }
}
```

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program F

Ani: Rp. 18000,00

Budi: Rp. 64125,00

Bina: Rp. 27000,00

Cita: Rp. 47025,00

Pendapatan Smile Laundry : Rp.156150,00

Process finished with exit code 0

- Tugas 2

The image shows a screenshot of an IDE (IntelliJ IDEA) with a Java project named "Tugas_2". The code is in a file named "Tugus_2.java". The code defines a class "Tugas_2" with a main method that prompts the user to input speed, distance, and time, and then calculates the speed based on the input.

```
package JS1;
import java.util.Scanner;
public class Tugus_2 {
    static java.util.Scanner sc = new java.util.Scanner(System.in);
    static java.util.Scanner sc1 = new java.util.Scanner(System.in);
    static java.util.Scanner sc2 = new java.util.Scanner(System.in);

    public static double v = 0, s = 0, t = 0, hasil = 0;

    public static void main(String[] args) {
        while (true) {
            System.out.println("=====");
            System.out.println("PROGRAM RUMUS KECEPATAN, JARAK, & WAKTU");
            System.out.println("=====");
            System.out.println("Menu :");
            System.out.println("1. Rumus Kecepatan");
            System.out.println("2. Rumus Jarak");
            System.out.println("3. Rumus Waktu");
            System.out.println("4. Exit");
            System.out.println("SESUAIKAN SATUAN !!!");
            System.out.println("Pilih : ");
            int menu = sc.nextInt();

            if (menu == 1) {
                kecepatan();
            } else if (menu == 2) {
                jarak();
            } else if (menu == 3) {
                waktu();
            } else if (menu == 4) {
                break;
            } else {
                System.out.println("Input Tidak Sesuai");
            }
        }
    }
}
```

The Run console shows the output of the program, which prompts the user to input speed, distance, and time, and then calculates the speed based on the input.

```
=====
PROGRAM RUMUS KECEPATAN, JARAK, & WAKTU
=====
Menu :
1. Rumus Kecepatan
2. Rumus Jarak
3. Rumus Waktu
4. Exit
SESUAIKAN SATUAN !!!
Pilih : 1
Masukkan jarak : 100
Masukkan waktu : 90
Kecepatan Yang Ditempuh adalah: 1.1111111111111112
=====
PROGRAM RUMUS KECEPATAN, JARAK, & WAKTU
=====
Menu :
1. Rumus Kecepatan
2. Rumus Jarak
3. Rumus Waktu
4. Exit
SESUAIKAN SATUAN !!!
Pilih : 2
Masukkan Kecepatan : 30
```

The screenshot displays an IDE with the following components:

- Top Bar:** File, Edit, View, Navigate, Code Refactor, Build, Run, Tools, VCS, Window, Help.
- Project Explorer:** Shows the project structure with files like `Array.java`, `Fungsi.java`, `Tugas_1.java`, and `Tugas_2.java`.
- Editor:** Contains the source code for `Tugus_2.java`. The code defines a `Tugas_2` class with a `main` method that uses a `Scanner` to take user input and calculate speed, distance, and time based on a menu selection.
- Run Window:** Shows the output of the program. It displays the menu options, user input (e.g., "Pilih : 2", "Masukkan Kecepatan : 77", "Masukkan waktu : 35"), and the calculated results (e.g., "Jarak Yang Ditempuh adalah: 2695.0").
- Bottom Bar:** Includes a status bar with "All files are up-to-date (a minute ago)", a progress bar at 92%, and system information like "56:1 CRLF UTF-8 4 spaces".

