

**TUGAS GUIDED
PEMROGRAMAN PERANGKAT BERGERAK**

**MODUL 2
PENGENALAN DART**



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PROGRAM STUDI S1 REKAYASA PERANGKAT LUNAK

FAKULTAS INFORMATIKA

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Source Code

```
Run | Debug | Profile
void main() {
    //1. Variable
    var name = "Alice"; // Tipe data String
    var age = 25; // Tipe data Integer

    print("Nama: $name, Usia: $age");

    //2. Switch
    var day = 3; // Misalkan 1 = Senin, 2 = Selasa, dst.
    switch (day) {
        case 1:
            print("Senin");
            break;
        case 2:
            print("Selasa");
            break;
        case 3:
            print("Rabu");
            break;
        case 4:
            print("Kamis");
            break;
        case 5:
            print("Jumat");
            break;
        case 6:
            print("Sabtu");
            break;
        case 7:
            print("Minggu");
            break;
        default:
            print("Hari tidak valid");
    }

    //3. if-else statement
    var openHours = 8;
    var closedHours = 21;
    var now = 17;
    if (now > openHours && now < closedHours) {
        print("Hello, we're open");
    } else {
        print("Sorry, we've closed");
    }

    // 4. looping
    // 4.1. for loops
    for (int i = 1; i <= 2; i++) {
        print(i);
    }
    // 4.2 While loops
    int i = 1; // Deklarasi variabel
    // While loop sederhana
    while (i <= 4) {
        print(i);
        i++; // Tambahkan 1 ke i setelah setiap iterasi
    }

    // 5. List
    // 5.1 fix length list
    // Membuat fixed-length list dengan panjang 3
    List<int> fixedList =
        | List.filled(3, 0); // List dengan 3 elemen, diisi dengan 0

    // Mengubah elemen dalam list
    fixedList[0] = 10;
    fixedList[1] = 20;
    fixedList[2] = 30;
    print(fixedList); // Output: [10, 20, 30]
```

```

70 // fixedList.add(40); //
71
72 // 5.2 Growtable List
73 // Membuat growable list (panjangnya bisa berubah)
74 List<int> growableList = [];
75 // Menambahkan elemen ke dalam list
76 growableList.add(10);
77 growableList.add(20);
78 growableList.add(30);
79 print(growableList); // Output: [10, 20, 30]
80 // Menambahkan lebih banyak elemen
81 growableList.add(40);
82 growableList.add(50);
83 print(growableList); // Output: [10, 20, 30, 40, 50]
84 // Menghapus elemen dari list
85 growableList.remove(20);
86 print(growableList); // Output: [10, 30, 40, 50]
87
88 // 6. Fungsi
89 // 6.1 Mendefinisikan Fungsi
90 void function_name() {
91     //statements
92 }
93 // 6.2 Mengembalikan Nilai
94 String sapaan(String nama) {
95     return "Halo, $nama!";
96 }
97
98 void main() {
99     String pesan = sapaan("Dart");
100     print(pesan); // Output: Halo, Dart!
101 }
102 }
103

```

Screenshoot Output

```

PS D:\PPB\PPB_AlthafiaDefiyandreaLask
Nama: Alice, Usia: 25
Rabu
Hello, we're open
1
2
1
2
3
4
[10, 20, 30]
[10, 20, 30]
[10, 20, 30, 40, 50]
[10, 30, 40, 50]

```