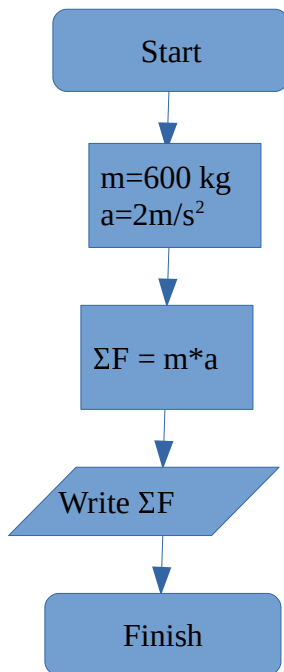Week 2 – Exercise 1

1. Newton second law.

Algorithm

Pseudocode
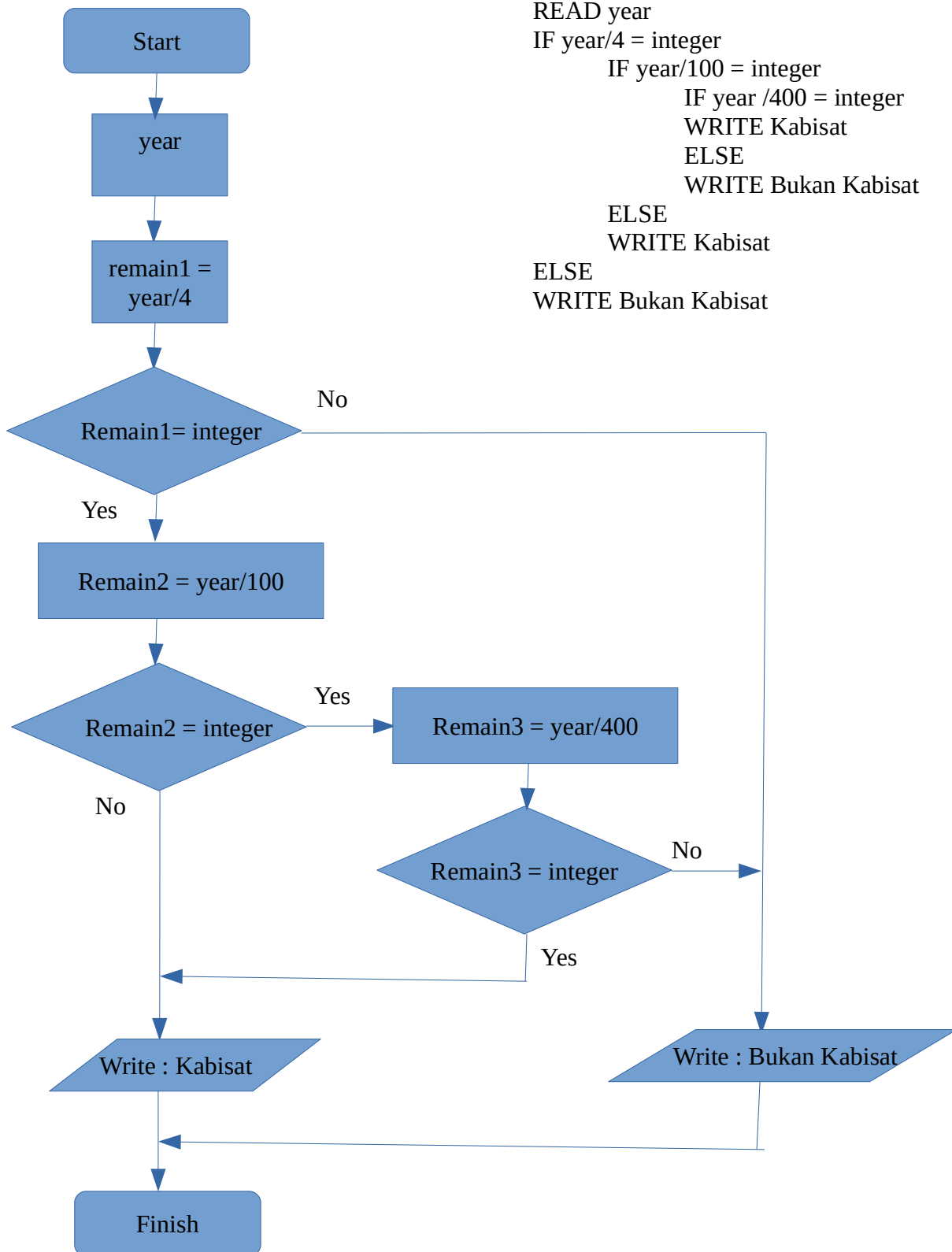
READ mass(m), acceleration(a)
force = mass * acceleration
WRITE force

```
Start
   ↓
m=600 kg
a=2m/s²
   ↓
ΣF = m*a
   ↓
Write ΣF
   ↓
Finish
```

2. Tahun Kabisat

Algorithm

Start

year

remain1 = year/4

Remain1= integer — No

Yes

Remain2 = year/100

Remain2 = integer — Yes → Remain3 = year/400

No

Remain3 = integer — No

Yes

Write : Kabisat

Write : Bukan Kabisat

Finish

Pseudocode

```
READ year
IF year/4 = integer
        IF year/100 = integer
                IF year /400 = integer
                WRITE Kabisat
                ELSE
                WRITE Bukan Kabisat
        ELSE
        WRITE Kabisat
ELSE
WRITE Bukan Kabisat
```
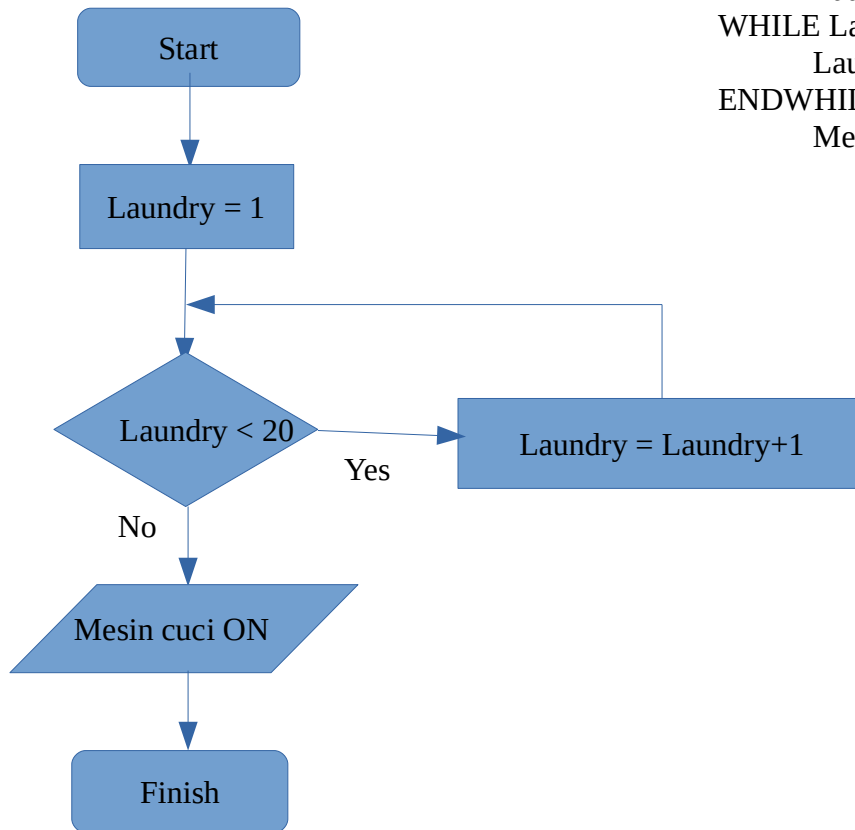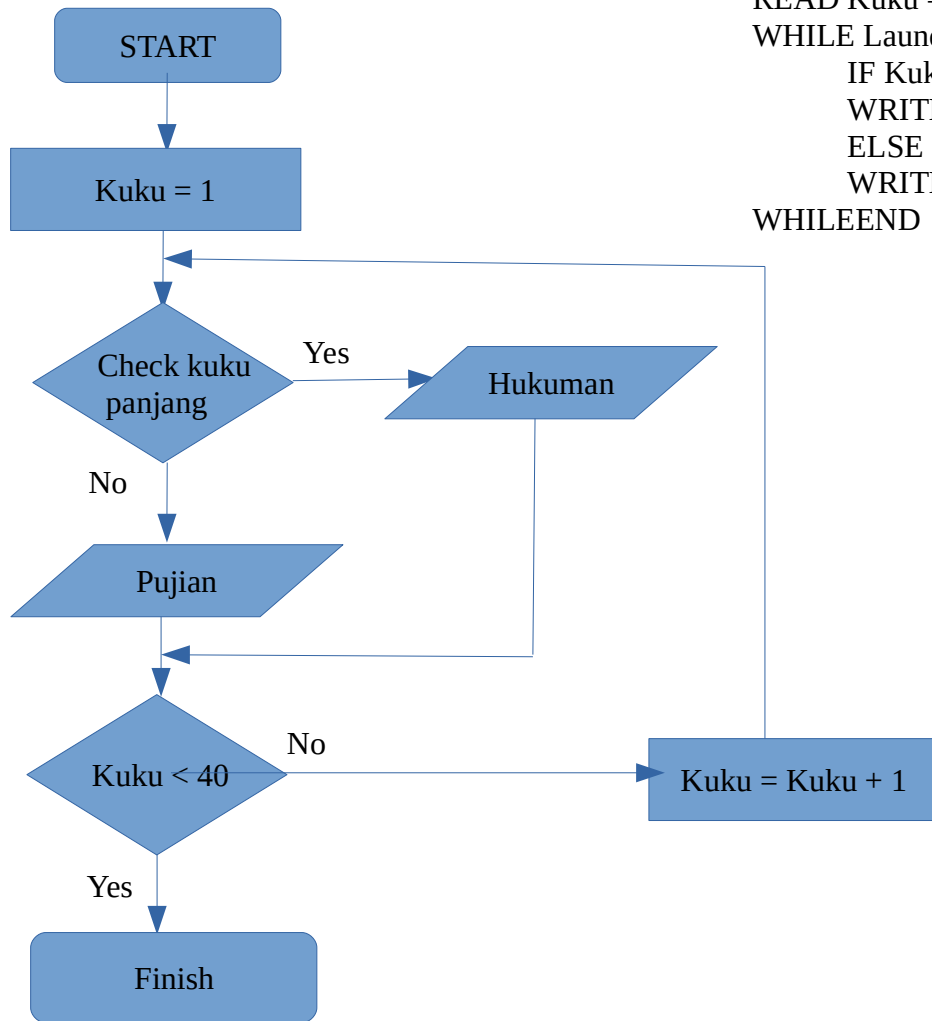
3. Laundry Day

Algorithm

Start

Laundry = 1

Laundry < 20

Yes

Laundry = Laundry+1

No

Mesin cuci ON

Finish

Pseudocode

READ Laundry = 1
WHILE Laundry < 20
        Laundry = Laundry+1
ENDWHILE
        Mesin cuci ON

4. Periksa Kuku

Algorithm

```
                    START
                      |
                      v
                  Kuku = 1
                      |
                      v
            Check kuku    Yes
            panjang   -------->   Hukuman
                |
              No|
                v
            Pujian
                |
                v
            Kuku < 40    No
                      -------->   Kuku = Kuku + 1
              Yes|
                 v
             Finish
```