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Soal Nomor 1

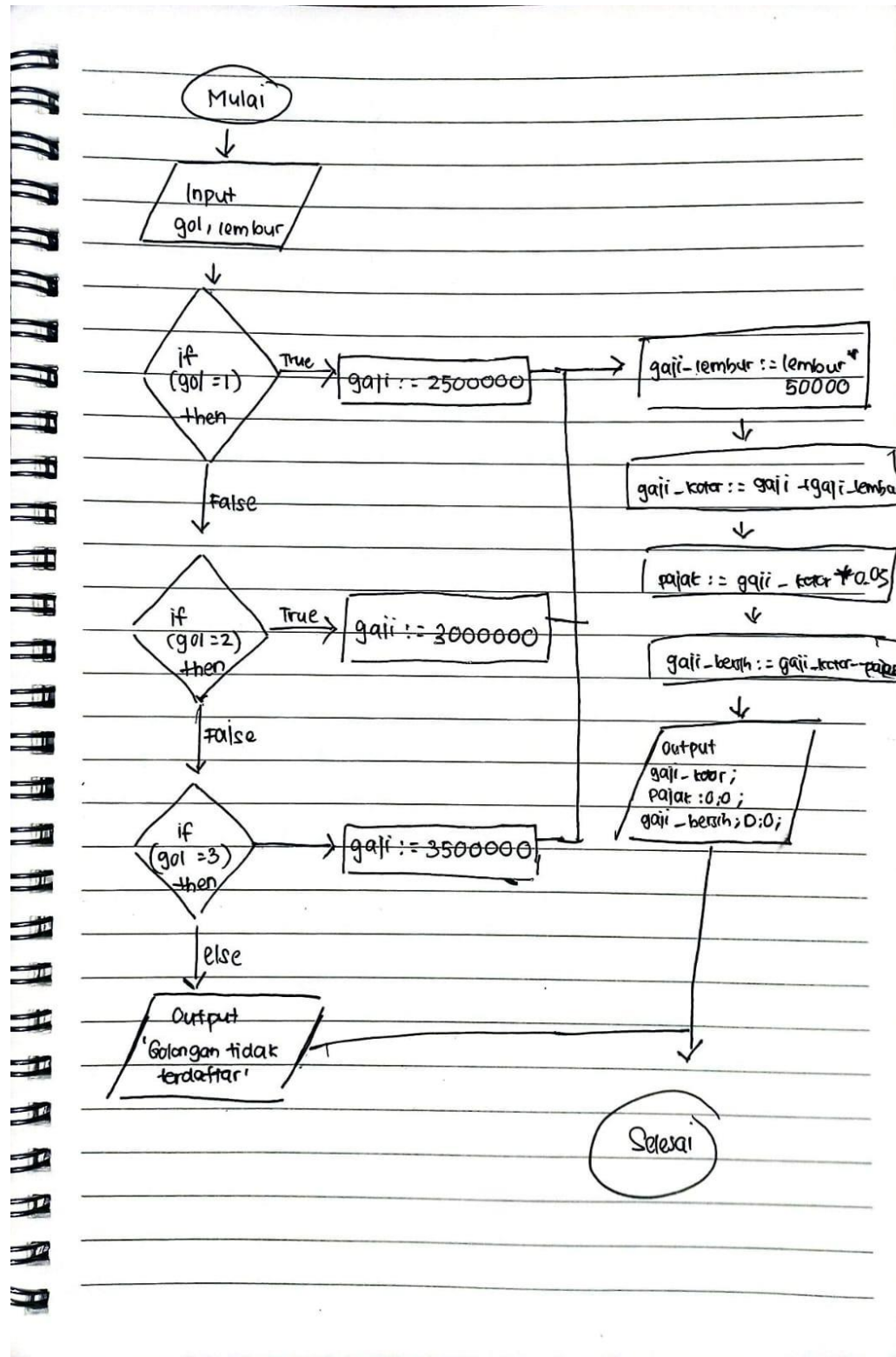
Coding :

```
program gaji_pegawai;
uses crt;
var
    gol, lembur : integer;
    gaji, gaji_lembur, gaji_kotor : longint;
    pajak, gaji_bersih : real;
begin
    clrscr;
    write('Masukkan Golongan Anda : ');
    readln(gol);
    write('Masukkan Jam Lembur Anda : ');
    readln(lembur);
    if (gol = 1) then gaji := 2500000
    else if (gol = 2) then gaji := 3000000
    else if (gol = 3) then gaji := 3500000
    else begin
        writeln('Golongan Anda tidak terdaftar');
        exit();
    end;
    gaji_lembur := lembur * 50000;
    gaji_kotor := gaji + gaji_lembur;
    pajak := gaji_kotor * 0.05;
    gaji_bersih := gaji_kotor - pajak;
    writeln();
    writeln('Total Pendapatan Anda      : ', gaji_kotor);
    writeln('Pajak Penghasilan          : ', pajak:0:0);
```

```
writeln('Jumlah Gaji yang Anda Terima : ', gaji_bersih:0:0);
```

end.

Flowchart :



Soal Nomor 2

Program :

```
uses wincrt;
```

```
var
```

```
    a, b, c: integer;
```

```
begin
```

```
    write('Masukkan nilai bil 1 : ');
```

```
    readln(a);
```

```
    write('Masukkan nilai bil 2 : ');
```

```
    readln(b);
```

```
    write('Masukkan nilai bil 3 : ');
```

```
    readln(c);
```

```
    if (a>b) and (a>c) then writeln(a) else
```

```
    if (b>a) and (b>c) then writeln(b) else
```

```
    writeln(c);
```

```
end.
```

Penjelasan : untuk mengecek 3 bilangan mana bilangan yang terbesar.

Soal Nomor 3

Algoritma:

1. Mulai
2. Inisialisasi variabel a, t, t_limas, vol dengan tipe data real (optional)
3. Masukkan nilai a
4. Masukkan nilai t
5. Masukkan nilai t_limas
6. Hitung volume = $\frac{1}{3} * \frac{1}{2} * a * t * t_limas$
7. Tampilkan volume
8. Selesai

Program :

```
program vol_limas_segitiga;
uses crt;
var a, t, t_limas, vol : real;
begin
clrscr;
write('Alas Segitiga : '); readln(a);
write('Tinggi Segitiga : '); readln(t);
write('Tinggi Limas : '); readln(t_limas);
vol := 1/3 * 1/2 * a * t * t_limas;
writeln('Volume Limas Segitiga : ', vol:0:2);
end.
```

Soal Nomor 4

Program:

```
uses crt;
begin
clrscr;
writeln((65 and 34) shl 2);
end.
```

Hasil Hitung Manual :

65 = 0100 0001

34 = 0010 0010

----- AND

0000 0000 = 0

0 SHL 2 = 0