Print first 50 Prime number

→ all cannot divide → Prime → Print

number: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, - - .

→ one divide → break → not prime → no print

Print: 2, 3, 5, 7, 11

```
while ____ :
    for ____ :
        if ____ :
            break
    print
```

---

x	y
8	24

gcd	div
~~1~~	~~2~~
~~2~~	~~3~~
~~4~~	~~4~~
8	~~5~~
	~~6~~
	~~7~~
	8

H.W

5.18

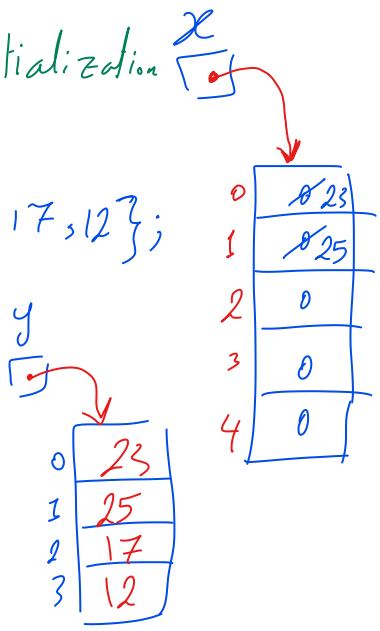
Example of flow control p 3,4,5

Declaration Creation

```
int[] x = new int[5];
x[0] = 23;
x[1] = 25;
```

Initialization

```
int[] y = {23, 25, 17, 12};
```



Enter num of students: 5

Enter 1st mark: 55

~ ~ ~ : 63

~ ~ ~ : 73

~ ~ ~ : 40

~ ~ ~ : 52

best = 73

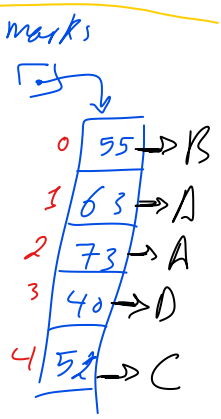
A → m >= best - 10 (63)

B → m >= best - 20 (53)

C → m >= best - 30 (43)

D → m >= best - 40 (33)

F → else



best

~~0~~

~~55~~

~~63~~

73

Enter num of emps: 4

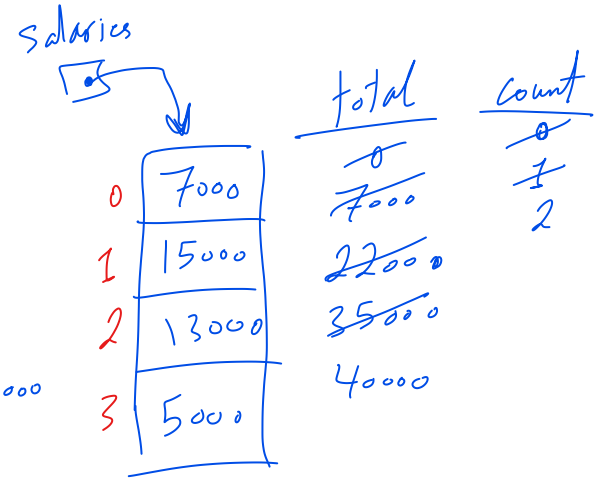
Enter emp salary: 7000

~ ~ ~ : 15000

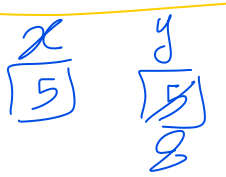
~ ~ ~ : 13000

~ ~ ~ : 5000

$$avg = \frac{total}{n} \rightarrow 10000$$



```
int x = 5;
int y = x;
y += 3;
```



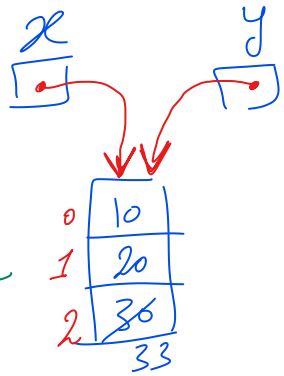
Copy Value

H.W

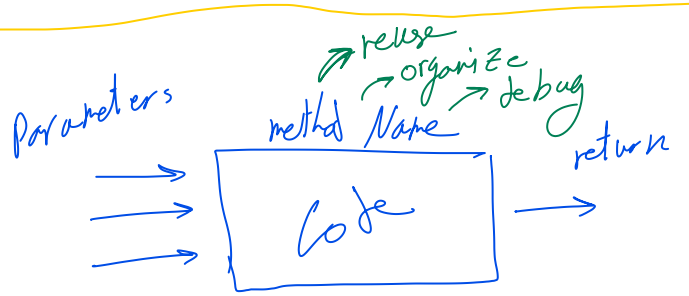
7.4, 7.7

7.12

```
int[] x = {10, 20, 30};
int[] y = x;
y[2] += 3;
```



Copy Reference



Define method

Call Method

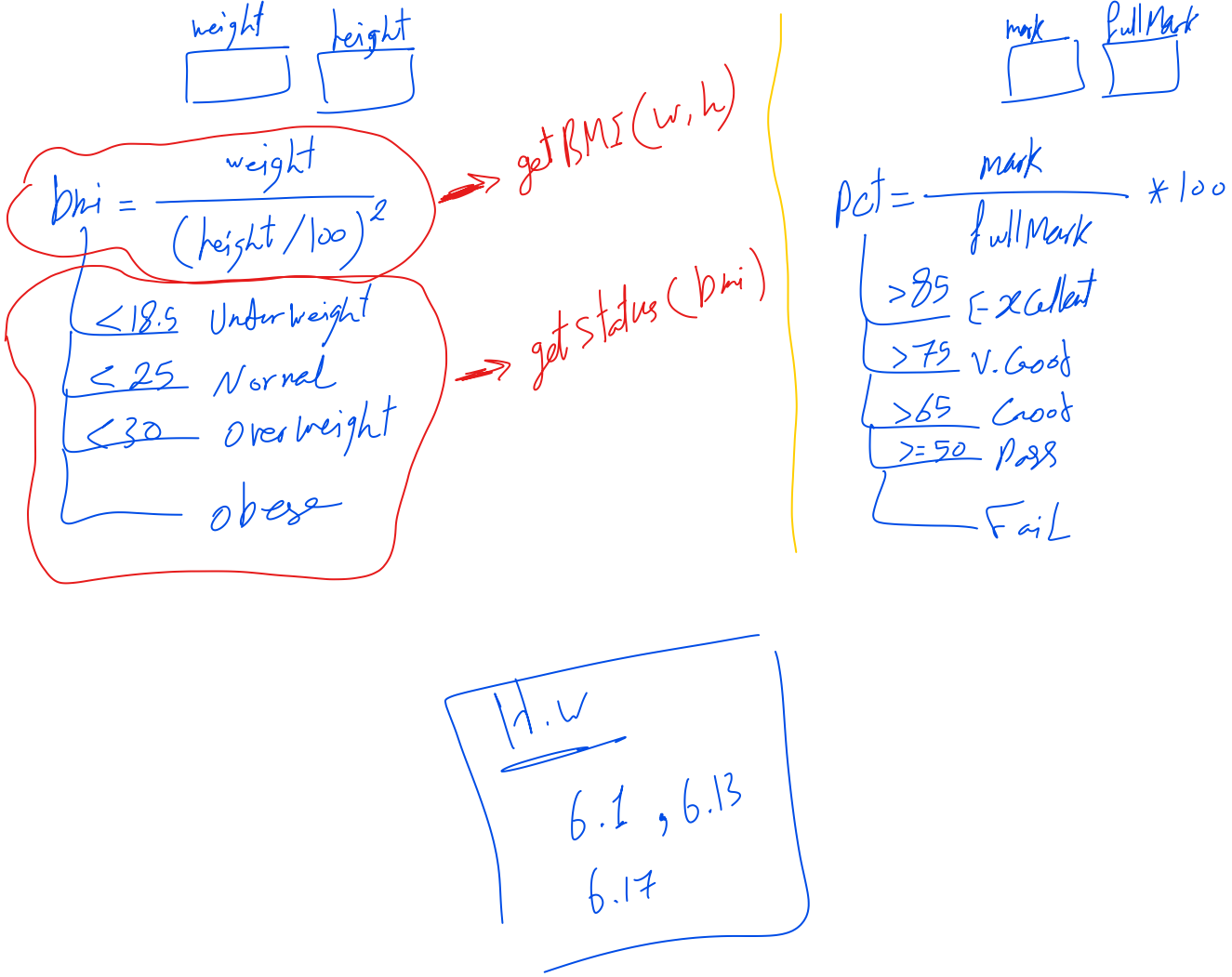
Math.max(5,2) → 5

Math.round(19.6) → 20

Character.isLetter('A') →

modifiers return-type methodName (Param-type Paramname, ...) {

}


weight
height
bmi = weight / (height/100)^2
getBMI(w,h)
<18.5 Underweight
<25 Normal
<30 Overweight
obese
getStatus(bmi)
mark
fullMark
pct = mark / fullMark * 100
>85 Excellent
>75 V.Good
>65 Good
>=50 Pass
Fail

h.w

6.1 , 6.13

6.17