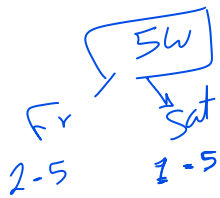
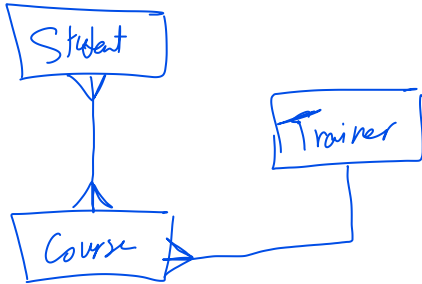
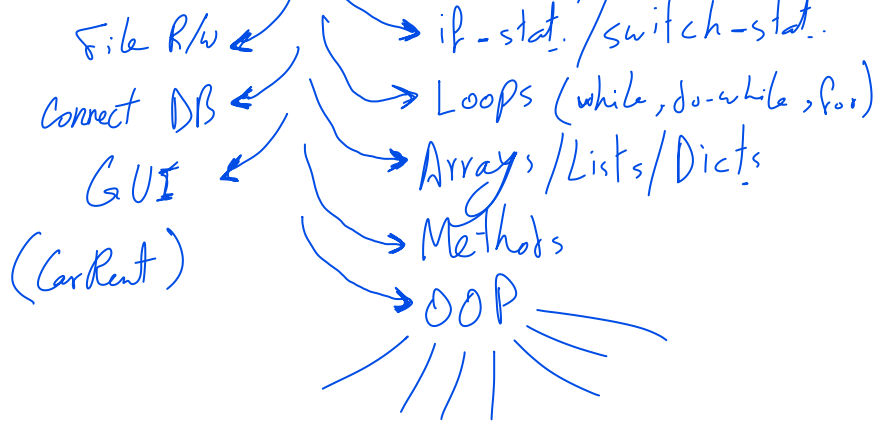


# Web APP

- \* MSSQL Server
- \* C# Programming
- \* HTML, CSS, JS
- \* ASP. Net



## Intro to Programming Using C#



Visual Studio

### Errors

- \* Syntax
- \* Runtime
- \* Logic

input  
Storage  
Process  
Output

salary → Variable  
7000  
byte, short, int, long  
float, double, decimal  
char, string

$$\text{annualSalary} = \text{salary} * 12$$

mark 23 FullMark 25

$$\text{Pct} = \frac{\text{mark}}{\text{FullMark}} * 100$$

92%

### Math Operators

- \* , / , %
- + , -

$$5/2 \Rightarrow 2$$

$$5.0/2 \Rightarrow 2.5$$

int x = 5;  
int y = 2;

(Double) x/y  $\Rightarrow$  2.5

### Assignment Operator

int x = 5;  
x = 3;  
x = x + 5;  
x += 2;

5  
3 26  
8 27  
10 28  
30 27  
25

x \*= 3;  
x -= 5;  
x++;  
Cw(x++);  $\Rightarrow$  26  
Cw(++x);  $\Rightarrow$  28  
Cw(x--);  $\Rightarrow$  28

### Common Functions

$$\text{Math.Pow}(5, 2) \Rightarrow 25$$

$$\text{Math.Sqrt}(25) \Rightarrow 5$$

$$\text{Math.Max}(2, 5) \Rightarrow 5$$

$$\text{Math.Min}(2, 5) \Rightarrow 2$$

$$\text{Math.Round}(19.6) \Rightarrow 20$$

$$\text{Math.Round}(19.6666, 2) \Rightarrow 19.67$$

weight 68 height 182

$$\text{bmi} = \frac{\text{weight}}{(\text{height}/100)^2}$$

20.52 ~

```
if (bool-expr) {
    // true
}
// always
```

```
if (bool-expr) {
    // true
} else {
    // false
}
// always
```

Relational Operators

>, >=, <, <=

==, !=

int x = 5;

x == 3  
false

x != 3  
true

x  
5

```
if (bool-expr) {
    // T
} else if (bool-expr) {
    // F, T
} else if (bool-expr) {
    // F, F, T
}
// all false
}
// always
```

mark  FullMark

$pc = \frac{\text{mark}}{\text{FullMark}} \times 100$

> 85 Excellent

> 75 V. Good

> 65 Good

>= 50 Pass

Fail

weight  height

$bmi = \frac{\text{weight}}{(\text{height}/100)^2}$

< 18.5 Underweight

< 25 Normal

< 30 overweight

Obese

Logical Operators

bool-expr && bool-expr

||

! bool-expr

day

1-5  $\Rightarrow$  work-day

6, 7  $\Rightarrow$  off-day

else  $\Rightarrow$  Invalid

day

7, 1-4  $\Rightarrow$  work-day

5, 6  $\Rightarrow$  off-day

else  $\Rightarrow$  Invalid

```
switch (expr) {
    case value1:
        // break;
    case value2:
        // break;
    // default:
}
}
```



