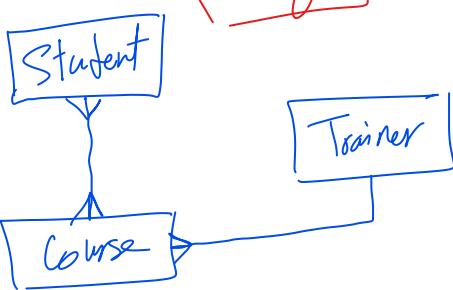
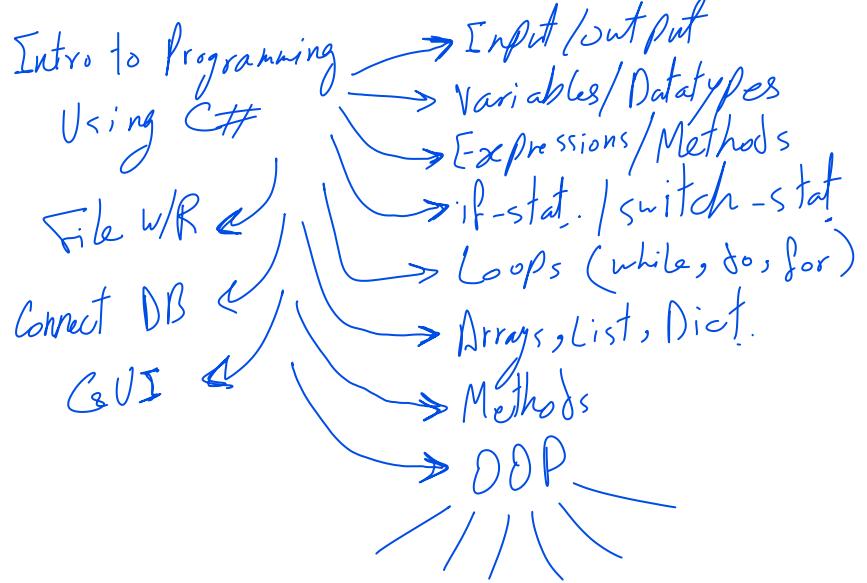


Web Developer

- * C# Programming
- * Querying SQL Server
- * HTML, CSS, JS
- * Asp. Net



* Visual Studio
* .Net 5/6 + VS Code

Errors:

- * Syntax
- * Runtime
- * Logic

input
Storage
Process
output

variable
byte, short, int, long
float, double, decimal
char, string

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

Full Mark 25 mark 23

$$\text{Pct} = \frac{\text{mark}}{\text{Full Mark}} * 100$$

$$= \frac{23}{25} * 100$$

$$= 92$$

Math Operators:

()

① *, /, %

② +, -

$$5/2 \rightarrow 2$$

$$23/25 \rightarrow 0$$

$$5.0/2 \rightarrow 2.5$$

1 3

2 + 3 / 3

6 2

2 * 3 / 3

int x = 5;	7 % 3 → 1
int y = 2;	11 % 3 → 2
x/y → 2	10 % 2 → 0
(double) x/y → 2.5	

Assignment Operator

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

x
3
x + 5
30
x + 6
36
x + 25
26
x * 3
27

x = 5;
++x;
Console.WriteLine(x); → 27
Console.WriteLine(x++); → 27
Console.WriteLine(x--); → 28

Common Methods

Math.Pow(5, 2) → 25
Math.Sqrt(25) → 5
Math.Max(5, 2) → 5
Math.Min(5, 2) → 2
Math.Round(19.6) → 20
Math.Round(19.6666, 2) → 19.67

weight	height
68	182

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

20.51 :-

if (bool-exp){
 _____ true
 }
 _____ always

if (bool-exp){
 _____ true
 } else {
 _____ false
 }
 _____ always

Relational Operator

>, >= , <, <=

== , !=

int x = 5;

x == 3

false

x
 5

x != 3
 true

if (bool-exp){

T

} else if (bool-exp){

F, T

} else if (bool-exp){

F, T

:

else {

all false

:

always

FullMark mark

$$pct = \frac{\text{mark}}{\text{fullMark}} * 100$$

>85 Excellent
 >75 V.Good
 >65 Good
 >=50 Pass
 <50 Fail

height height

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

<18.5 Underweight
 <25 Normal
 <30 OverWeight
 >30 Obese

Logical Operators

bool-expr ~~if~~ || bool-expr
 ! bool-expr

1-5 → work-day
 6,7 → off-day
 else → Invalid

day

7,1-4 → work-day
 5,6 → off-day
 else → Invalid

switch(expr) {

case value1:

break;

case value2:

break;

default:

break;

What's $7 * 3$?

⇒ 21 ⇒ 70
 ↓
 Correct Wrong

}

while (bool-expr) {

}

true

false

do {

true

while (bool-expr);

false

for (int x=1 ; bool-expr ; change) {

}

① int x=1
 ② x <= 10
 ③ change
 ④ x += 1

true

false

What's $5 * 4$?
 >> 20
 What's $2 * 7$?
 >> 14
 What's $9 * 9$?
 >>
 :
 >> 13
 Game Over!!

What's $5 * 4$?
 >> 100
 Try again, what's $5 * 4$?
 >> 17
 Try again, what's $5 * 4$?
 >>
 :
 >> 20
 Correct

Guess num. btwo-boo number
 68
 >> 20
 Go up
 >> 70
 Go down
 >> 50
 Go up
 >> 60
 Go up
 >> 68
 You guessed right!

What's $3 * 7$?
 >> 21
 Correct
 What's $5 * 4$?
 >> 11
 Wrong
 What's $8 * 8$?
 >>

 Your score 3 out of 5

Enter num of std.: 4
 Enter full mark: 25
 Enter std. mark: 23

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

 >= 50 Pass
 Fail

string x = "Hello";
 cw(x) \rightarrow Hello x
 cw(x[0]) \rightarrow H

H	e	l	l	o
0	1	2	3	4

 cw(x.Length) \rightarrow 5

x.  methods

char. 

Ahmed123 X

20Ahmed20

- ① at least 8 char
- ② at least 2 upper
- ③ at least 2 digits

upperCount	digitCount
0	0
1	1
2	2
3	3
4	4