07 February 2021 23:07

(I) → Notes

(II) → Understanding → Running
→ Github ( )
Notes

Last class :- addition two numbers
3 numbers

→ Conditional Statements :- Based on the condition it will be true or false.

eg →
```
a = 9
if ( a > 10)        9 > 10
{                   true / False ; T
                    } code will be executed
}
else
{

}
```

```
#include <iostream>
using namespace std;

int main()
{
  int a = 13;    // a is a variable whose value is 10;

  if ( a < 11) (T)        13 < 11   False
  {   cout<<" a is less than 11";

  }
  else
  {
     cout<<" a is greater than 11";
  }
}
```

if (True)
{
}
else
{
}

(2) → WAP to find minimum of two number

a	b	answer
10	20	→ a
20	10	→ b

```
int main()
{
```

```
int main()
{
    a=10 , b =20;
    if (a<b)
    {
        cout<< "a is smaller than b"; a;
    }
    else
    {
        cout<<b; a is greater
    }
```

(3) Find min of three numbers

a	b	c
10	20	30

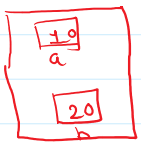
```
if ( a<b && a<c)
{
    cout<< a;        ✓   // a is smallest
}
else if (b<a && b<c)
{
    cout<< b         ///   // b ✓
}
else
{
    cout<< c;        //  c ✓
}
```

```
if ((  )&&(  ))
{

}
```

(4) →

```
int main ()
{
    a=10 , b= 20;
    if (a<100)
    {
        cout<< a;
    }
    else if ( b<100)
    {
        cout<<b;
    }
}
```



output 10

```
int main ()
{
    a = 10    b = 20;
    if (a<100)
        cout<<a;
    if ( b<100)
        cout<<b;
}
```

output 10 20

(5) check whether a given number is positive, Negative or zero.

a = 10 "positive"
a = -20 "Negative"
a = 0 "zero"

a = 10 positive
a = -20 "Negative"
a = 0 "zero"

How can
conth

Condition of negative $a < 0$

Condition for positive $a > 0$

if (a = 0)

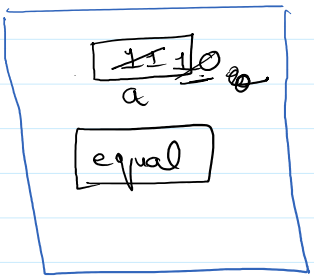
(6) => Check whether a number is equal to 10 or not

a = 10 "equal"
a = 11 "Not equal to 10"

sol →

```
int main()
{
    int a = 11;
    if (a == 10) // Changing value of a to 10
        cout << "equal";
    else
        cout << "Not equal to 10";
}
```

a = 10 assignment = True



a = 2

Checking (a == 10)

a = 10 changing ✓

a = 10 changing

a == 10 → checking the value

(7) → a divisible by 5 or not

Maths → if a divide by 5 then Remainder = 0 Divisible
Remainder != 0 Not Divisible

→ In coding 3 %. 10 = 3 Not Divisible

3 / 10

10) 3

Remainder

→ 20 %. 10 = 0 → Because 20 is divisible by 10

20 / 10

21 %. 10 = 1 Not

33 %. 10 = 3 Not

6 % 5 = 1 Not

4 % 2 = 0 Divisible

(7) → check whether a number is divisible by 5 or not

a = 10 "Yes"
a = 22 "No"

```
int main ()
{
  int a = 10;
    if ((a % 5) == 0)
    {
        cout << "Divisible";
    }
    else
        cout << "Not Divisible"
}
```

Computer → 0 → False
→ 1 → True
→ 2 → True
→ -1 → True

Anythink that is not zero True

if (___T___)
{
≡
}

a = 10;

if (a == 10) → True ✓

if (a > 10) → False ✓

if (a < 10) → False

if (a % 5) 10 % 5 if(0) → False ✓

if (a % 5 == 1) → False

if (5 % a == 0) → False

5 % 10 = 5

10) 5 (0
- 0
5 R.