# If Else

## Lecture- 3

Raghav Garg

# Control Statements

# IF – ELSE

# Ques : Take positive integer input and tell if it is even or odd

**Ques** : Take positive integer input and tell if it is divisible by 5 or not.

**Ques** : Given an integer. Print the absolute value of that integer.

**Ques** : If cost price and selling price of an item is input through the keyboard, write a program to determine whether the seller has made profit or incurred loss. Also determine how much profit he made or loss he incurred.

**Ques** : Take positive integer input and tell if it is a three digit number or not.

**Ques** : Take positive integer input and tell if it is divisible by 5 and 3.

**Ques** : Take positive integer input and tell if it is divisible by 5 or 3.

**Ques** : Take 3 positive integers input and print the greatest of them.

**Ques** : Write a program to check whether a character is an alphabet or not.

# Nested If – Else

**Ques** : Take positive integer input and tell if it is divisible by 5 or 3 but not divisible by 15.

| Category | Operator | Associativity |
|---|---|---|
| Postfix | () [] -> . ++ - - | Left to right |
| Unary | + - ! ~ ++ - - (type)* & sizeof | Right to left |
| Multiplicative | * / % | Left to right |
| Additive | + - | Left to right |
| Shift | << >> | Left to right |
| Relational | < <= > >= | Left to right |
| Equality | == != | Left to right |
| Bitwise AND | & | Left to right |
| Bitwise XOR | ^ | Left to right |
| Bitwise OR | \| | Left to right |
| Logical AND | && | Left to right |
| Logical OR | \|\| | Left to right |
| Conditional | ?: | Right to left |
| Assignment | = += -= *= /= %=>>= <<= &= ^= \|= | Right to left |
| Comma | , | Left to right |

**Ques** : Take positive integer input and tell if it is divisible by 5 and 3.

**Ques** : Take 3 positive integers input and print the greatest of them.

# Else If

**Ques** : Take input percentage of a student and print the Grade according to marks:

1) 91-100 Excellent
2) 81-90 Very Good
3) 71-80 Good
4) 61-70 Can do better
5) 51-60 Average
6) 40-50 Below Average
7) <40 Fail

**Ques** : Write a program to check whether a given character is a vowel or a consonant.

**Ques** : Take 3 numbers input and tell if they can be the sides of a triangle.

# Predict the output, if any error detect that

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

void main(){

    int number = 0;
    if(number > 0) cout << "Number is positive.";
    if(number ⟹ 0) cout << "Number is not negative.";

}
```

# Predict the output

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

int main(){

    int score =  100;
    if (score == 100) cout << " You win ";
    else cout << " You lose ";

  return 0;
}
```

# Predict the output

```cpp
int main(){

    int num1=5, num2=4, num3=3;

    if(num1 > num2 && num1 > num3)cout<<"Number1."<<endl;

    if(num2 > num1 || num2 > num3)cout<<"Number2."<<endl;

    if(num3 > num1 && num3 > num2)cout<<"Number3."<<endl;

    return 0;
}
```