**Decision Making**

**1).If statement**

**2).if…else statement**

**3).Nested if Statements**

**4).Switch statement**

**1). If statement:**

**Syntax:**

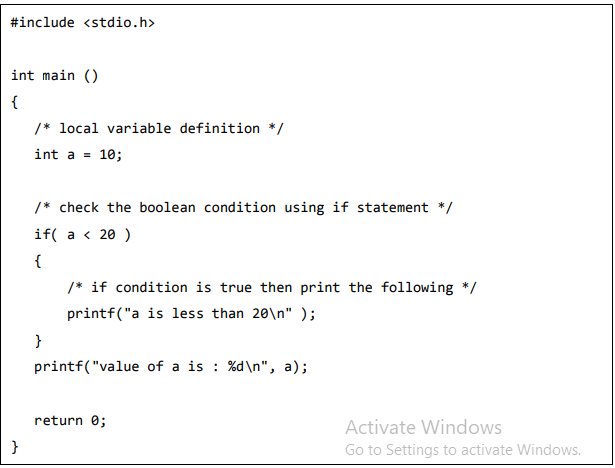
if(boolean\_expression) {

/\* statement(s) will execute if the boolean expression is true \*/ }

🡪If the Boolean expression evaluates to true, then the block of code inside the ‘if’ statement will be executed

🡪If the Boolean expression evaluates to false, then after the end of the ‘if’ statement (after the closing curly brace) will be executed

**Example:**

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**If-else statement:**

**Syntax:**

if(boolean\_expression) {

/\* statement(s) will execute if the boolean expression is true \*/

}

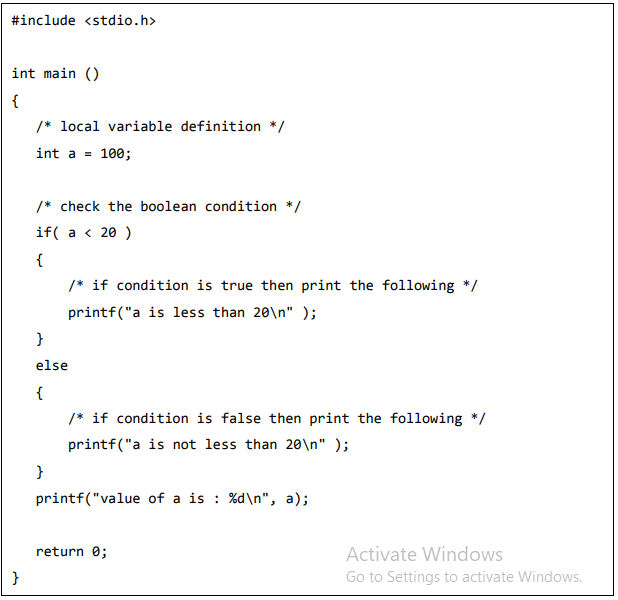
else {

/\* statement(s) will execute if the boolean expression is false \*/

}

**🡪**If the Boolean expression evaluates to true, then the if block will be executed, otherwise, the else block will be executed.

**Example:**

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**If.else if..else statement:**

**Syntax:**

if(boolean\_expression 1) {

/\* Executes when the boolean expression 1 is true \*/

}

else if( boolean\_expression 2) {

/\* Executes when the boolean expression 2 is true \*/

}

else if( boolean\_expression 3)

{

/\* Executes when the boolean expression 3 is true \*/

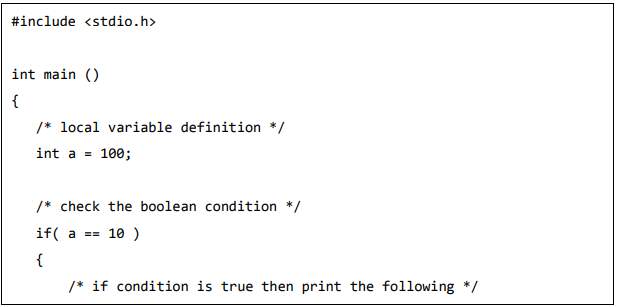
}

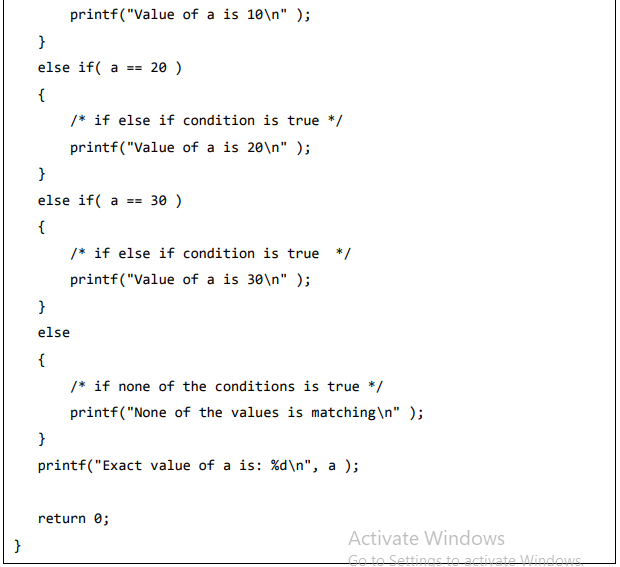
else {

/\* executes when the none of the above condition is true \*/

}

**Example:**

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**Nested if Statements:**

**Syntax:**

if( boolean\_expression 1) {

/\* Executes when the boolean expression 1 is true \*/

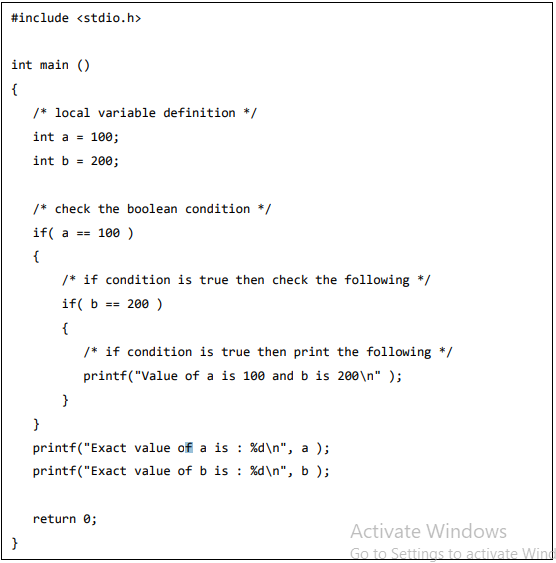
if(boolean\_expression 2) {

/\* Executes when the boolean expression 2 is true \*/

}

}

**Example:**

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**Switch Statements:**

**Syntax:**

switch(expression){

case constant-expression : statement(s);

break; /\* optional \*/

case constant-expression :

statement(s);

break; /\* optional \*/

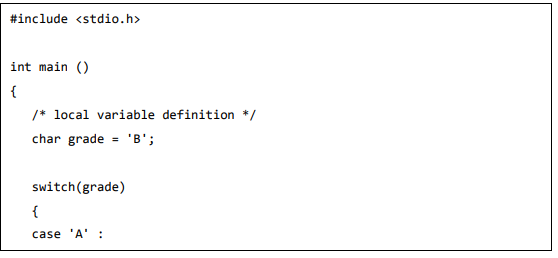
/\* you can have any number of case statements \*/

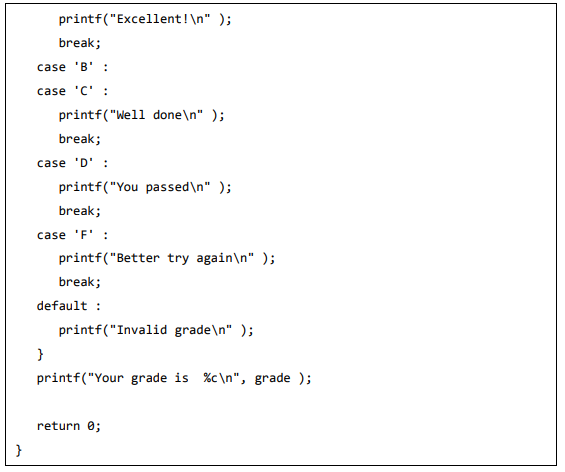
default : /\* Optional \*/

statement(s);

}

**Example:**

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