# Operators Associativity and Precedence Assignment

1. Use operator associativity, evaluate the folowing expressions and predict the output
   1. x = 34 + 12/4 – 56 :- 19
   2. 12 + 3 - 4 / 2 < 3 + 1 :- Boolean false
   3. (2 + (3 + 2) ) \* 10 :- 70
   4. 34 + 12/4 – 45 :- -8

A screenshot of a computer

Description automatically generated

Output:

A screen shot of a computer

Description automatically generated

1. Rewrite the following expressions with improved readability
   1. age < 18 && height < 48 || age > 60 && height > 72
   2. char name value
   3. char $name

Ans: a) (age < 18 || age > 60) && ( height < 48 || height > 72)

b) char name\_value

1. char name
2. Predict the value of a after each statement.

int main(void)

{

int i = 10;

char a = 'd'; //100

a += 10; //110

a \*= 5; //550

a /= 4; //137

a %= 2; //1

a \*= a + i; //11

**return** 0;

}

1. Consider a = 12, b = 3, predict the output of the following .
   1. (a>100) && (b<10) :- 0 (false)
   2. (a==4) && (b==2) :- 0 (false)
   3. (a==11) && (a++) :- 0 (false)
2. Consider a = 10, b = 11, predict the output of the following .
   1. (a>10) || (b<10) :- 0 (false)
   2. a || 12.12 :- 1 (true)
   3. a || b :- 1 (true)
   4. !(a > 5) :- 0 (false)
3. Consider int age = 10, height = 45, year = 2000; Predict the output of the following.
   1. (age < 12 && height < 48) || (age > 65 && height > 72) :- 1 (true)
   2. (year % 4 == 0 && year % 100 != 0 ) || (year % 400 == 0) :- 1 (true)