**Operators Associativity and Precedence Assignment**

1. Use operator associativity, evaluate the following expressions and predict the output
   1. x = 34 + 12/4 – 56
   2. 12 + 3 - 4 / 2 < 3 + 1
   3. (2 + (3 + 2) ) \* 10
   4. 34 + 12/4 – 45

A: a. x=-19

b. false

c. 70

d. -8

1. Rewrite the following expressions with improved readability
   1. age < 18 && height < 48 || age > 60 && height > 72

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

* 1. char name value

A: char name = ‘A’

* 1. char $name

A: char name

1. Predict the value of a after each statement.

int main(void)

{

int i = 10;

char a = 'd';

a += 10;

a \*= 5;

a /= 4;

a %= 2;

a \*= a + i;

**return** 0;

}

A: a = ‘d’ = 100

a+=10🡪 104

a\*=5🡪 520

a /= 4; 🡪 130

a%= 2; 🡪 0

a\*= a+i;🡪0

1. Consider a = 12, b = 3, predict the output of the following .
   1. (a>100) && (b<10)
   2. (a==4) && (b==2)
   3. (a==11) && (a++)

A: a. False

b. False

c.False

1. Consider a = 10, b = 11, predict the output of the following .
   1. (a>10) || (b<10)
   2. a || 12.12
   3. a || b
   4. !(a > 5)

A: a. False

b. True

c. True

d. false

1. Consider int age = 10, height = 45, year = 2000; Predict the output of the following.
   1. (age < 12 && height < 48) || (age > 65 && height > 72)
   2. (year % 4 == 0 && year % 100 != 0 ) || (year % 400 == 0);

A:a. True

b.True