Operators Associativity and Precedence Assignment

 Use operator associativity, evaluate the following expressions and predict the output

```
a. x = 34 + 12/4 - 56

Ans: x = 34 + 3.56

X = -19

b. 12 + 3 - 4/2 < 3 + 1

Ans: 12 + 3 - 2 < 3 + 1

13 < 4

Output = false

c. (2 + (3 + 2)) * 10

Ans: (2 + 5)*10

7*10

70

d. 34 + 12/4 - 45

Ans: 34 + 3.45

-8
```

2. Rewrite the following expressions with improved readability

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

b. char name value

Ans: char name, value;

c. char \$name

Ans: char name_with_dollar_sign;

3. 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' is initialized with the character 'd' (ASCII value 100)

$$a *= 5; //a = 550$$

$$a = 4$$
; // $a = 137$

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

Output: false

Ans: false

Ans: false

- 5. Consider a = 10, b = 11, predict the output of the following.
 - a. (a>10) || (b<10)

Ans: false

Ans: True

c. a || b

Ans: True

d.
$$!(a > 5)$$

Ans: false

6. Consider int age = 10, height = 45, year = 2000; Predict the output of the following.

Ans: True

Ans: True