3.2 Self-Review Questions

1. Indicate whether the following identifiers **VALID** or **INVALID**. Explain if invalid.

Identifier	Valid / Invalid ?	Why Invalid ?
employee name	Invalid	Space
int	Valid	
tot&Salary	Invalid	Special character &
$RM	Invalid	Special character $
number1	Valid	
3rdnumber	Invalid	Start with number
else	Invalid	Reserved word
EmpPosition	Valid	
number_2	Valid	
double	Invalid	Reserved word

2. The <u>disjunction   </u>logical operator is true only when at least one of the operands is **TRUE**.

3. If x=false, y=true, and z= true, what is the value of each of the following expressions?

   a) x && y || z = <u>true</u>

   b) x || y && z = <u>true</u>

   c) (x && y) || z = <u>true</u>

   d) (x || y) && z = <u>true</u>

   e) (x && z) || y = <u>true</u>

4. Show the value of x after each statement is performed:

   a) x = 6 + 4 * 8 /(2 – 1); **x=38**

   b) x = 6 % (4 + 2) * 4 – 2 / 2;
   x=-1

c) x = (3 * 7 * (3 + (2 * 12 / (4)))); **x=189**

d) x = 6 * (3 + 18) / 2 – 5 * 4; **x=43**

5. Find any errors in the following program:

```
integer main()
{
        int 1num, num 2, num3;
        character id;
        1num + num 2 = num3;
        cout << id << num3 << \n;
        return;
}
```

1. **Integer - int**
2. **Num 2 - num2**
3. **Character - char**
4. **<< - >>**
5. **\n-'\n'**
6. **Return-return 0**

6. If originally x=6, y=3, and z=2, what is the value of each of the following expression?

   a) x - z * 6 / y **= 2**

   b) y++ * (x + y) % z + y **= 5 // y=4**

   c) ++y + z-- + x++ **= 12 // y=4 z=1 x=7**

   d) x++ – 3 * ++z + 2 **= 1 // x=7 z=3**

   e) ++x – 2 * (5 – ++z) + y **= 6 // x=7 y=3 z=3**

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