

### Practice with Flowcharts

#### Question #1

```
{  
    float price = 43.25;  
    float discount = 0.65;  
    float total;  
  
    total = price * discount;  
  
    print total;  
}
```

**Output** \_\_\_\_\_

**Question #2**

```
{  
    int x = 6;  
    int result;  
  
    result = sqr(x) * sqr(12);  
  
    print result;  
}
```

**Output** \_\_\_\_\_

**Question #3**

{

int a, b;

int c, d;

a = 8;

b = a;

c = b + sqr(b);

d = ( a + b ) \* ( c - a );

print c;

}

**Output** \_\_\_\_\_

**Question #4**

```
{  
    float score1, score2, score3;  
    float average;  
    string grade;  
  
    score1 = 86.3;  
    score2 = 97.8;  
    score3 = 64.0;  
    average = ( score1 + score2 + score3 ) / 3;  
    if ( average > 90 ) then  
        grade = "A";  
    else-if ( ( average >= 80 ) && ( average < 90 ) ) then  
        grade = "B";  
    else  
        grade = "C";  
  
    print grade;  
}
```

**Output** \_\_\_\_\_

**Question #5**

```
{  
    int x = 5, y = 2, z = 10;  
  
    if ( x > 5 || x < 12) then  
        print x;  
    else-if ( y > 5 ) then  
        print y;  
    else  
        print z;  
}
```

**Output** \_\_\_\_\_

**Question #6**

```
{  
    float a = 6.50, b = 24.2, c = 15.63;  
    float total1, total2;  
    total1 = a + c;  
    total2 = a + b;  
  
    if ( ( total1 <= 55 ) && ( total1 >= 30 ) ) then  
        print total1;  
    else-if ( total2 > 28 ) then  
        print total2;  
    else  
        print a;  
}
```

**Output** \_\_\_\_\_

**Question #7**

```
{  
    int score = 77;  
    string pass = "I passed!";  
    string fail = "I failed!";  
  
    if ( score > 80 ) then  
        print pass;  
    else  
        print fail;  
}
```

**Output** \_\_\_\_\_

**Question #8**

```
{  
    int x = 230;  
    string yes = "HELLO";  
    string no = "GOODBYE";  
  
    if ( x != 10 ) then  
        print yes;  
    else  
        print no;  
}
```

**Output** \_\_\_\_\_

**Question #9**

```
{  
    int total = 50;  
    int i;  
  
    for (i=10; i >=1; i--)  
    {  
        total = total / 2;  
        i = i -1;  
    }  
    print total;  
}
```

**Output** \_\_\_\_\_

**Question #10**

```
{  
    float price = 359.89;  
    float salesTax = 1.07;  
    float stateTax = 1.04;  
    float total;  
    int i;  
  
    for (i=1; i<=5; i++)  
    {  
        if ( i <= 2 )  
            total = total + (price * salesTax);  
        else  
            total = total + (price * stateTax);  
  
    }  
  
    print total;  
}
```

**Output** \_\_\_\_\_