EE 2905

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Homework 4

1 – Provide the value of a,b,c after executing the following code snippits. 25pts

evaluate each problem individually

with a = 3, b = 1, c = 5
```
if (a != 0)
   b = 4;
else
   c = 2;
```

a   b   c

with a = 3, b = 5, c = 3
```
if (c == 2)
   b = 1;
else
   a = 2;
```

with a = 3, b = 0, c = 1
```
if (c == 0 || a && !b)
   if (!c)
      b = 1;
else
   a = 5;
```

with a = 0, b = 0, c = 3
```
if (a || b || c)
   b = 1;
else
   c = 5;
```

a   b   c

with a = 0, b = 0, c = 1
```
if (a)
   if (b)
      c = 2;
   else
      c = 3;
else
   c = 5;
```

with a = 0, b = 0, c = 5
```
if (c = b){
   b++;
   c--;
}
else
   --c;
```

2 – Provide the final values after executing the following code snippits   25pts

```
x =1;  y = 5;  z = 1;
switch(x){
   case 0:  x = 4;
            y = 3;
   case 1:  x = 3;
   default:  y = 5;
             z = 2;
}
```

x   y   z


```
x =4;  y = 3;  z = 1;
switch(x){
   case 0:  x = 4;
            y = 3;
            break;
   case 1:  x = 3;
            break;
   default:  y = 5;
             z = 2;
             break;
}
```

x   y   z


```
x =0;  y = 3;  z = 1;
switch(x){
   case 0:  x = 4;
            y = 2;
   case 1:  x = 3;
            z = 7;
            break;
   default:  y = 5;
             z = 2;
}
```

x   y   z

3 – Provide the values after executing the following code snippits - each snippit is evaluated independently   25pts

given:
int j = 0;
int k = 0;
int val=2;

```
while(val){
   j += 1;
   val --;
}
```

j =

```
while(j <= 5){
   val++;
   j++;
}
```

val =

```
while(val = 2){
   val++;
   j++;
}
```

val =

```
while(val + 2 < 5){
      ++val;
}
```

val =

```
j = 6;
k = 0;
while(j != k){
   val += --j * k++;
}
```

val =

4 – Provide the values after executing the following code snippits - each snippit is evaluated independently   25pts

given:
```
int val = 2;
int j;
int k;
```

```
for(j = 0; j < 6; j++)
    val = 2 * j;
```

```
for(j = 0; j < 4; j++)
    val += 5;
```

```
for(j = 3; j >=0; j--)
    val -= 5 – j;
```

```
for(j = 0; j < 5; j++)
    for(k = 0; k <5; k++)
        val += 1;
```

```
for(j = 0; j < 5; j++)
    for(k = 5; k > 0; k--)
        val += j + k;
```

val =