1. **Code with error**

```
int c = 0, product = 0;
while (c <= 5)
product = product * 5;
c = c + 1;
```

code without error

```
int c = 0, product = 0;
 while (c <= 5)
 {
    product *= 5;
    c += 1;
 }
 Console.WriteLine("Product: "+product);
 Console.WriteLine("C: "+c);
 Console.ReadKey();
```

The issue was the brackets missing which will result the first line (product = product * 5) only to be executed not the second one (c = c + 1).

2. Code with error

```
int a = 31, b = 0, sum = 0;
while (a != b) {
sum = sum + a;
b = b + 2;
}
```

Code without error

```
int a = 31, b = 0, sum = 0;
while (a >= b)
{
   sum += a;
   b += 2;
}
Console.WriteLine("Sum: "+sum);
Console.WriteLine("B: "+b);
Console.ReadKey();
```

The issue was the condition given inside the brackets. The condition says (a != b) which will iterate indefinitely because a and b both will be constants and always will be true. So, this will not print an output. So, to make it stop at one point I've given the condition as (a >= b). in this condition the iteration will stop at one point and give an output.

3. Code with error

```
int x = 1;
int total;
while (x <= 10) {
total = total + x;
x = x + 1;
}
```

Code without error

```
int x = 1;
int total = 0;
while (x <= 10)
{
   total = total + x;
   x = x + 1;
}
Console.WriteLine("Total: "+total);
Console.WriteLine("X: "+x);
Console.ReadKey();
```

The issue was the variable total wasn't assigned an initial value. When the loop iterates, the code which increments total by x needs an initial value to increment it since it was missing an initial value the code couldn't run and showed an error. Now the fixed code will run perfectly.

4. Code with error

```
while (y < 10) {
int y = 0;
Console.WriteLine("y" + y);
y = y + 1;
}
```

Code without error

```
int y = 0;
while (y < 10)
{
   y = y + 1;
   Console.WriteLine("y: " +y);
}
Console.ReadKey();
```

The issue is that the y shouldn't be declared inside the loop. It should be declared outside the loop so that the condition given inside the loop will not show an error.

5. Code with error

```
int z = 0;
while (z > 0) {
z = z - 1;
Console.WriteLine("z: " +z);
}
```

Code without error

```
int z = 5;
while (z >= 0)
{
   z = z - 1;
   Console.WriteLine("z: " + z);
}
Console.ReadKey();
```

The issue was the z= 0, this will not let the condition be executed because z is not more than 0, it is equal to 0, so for that, set z to be more than 0 and set the condition to be (z >= 0) which will now run because the z is now more than or equal to 0. The condition will now iterate until it is true and give an output.

6. Code with error

```
For (int count = 1, count < 100, count++) {
Console.WriteLine("Hello");
}
```

Code without error

```
for (int count = 1; count < 100; count++)
{
   Console.WriteLine("Hello");
}
Console.ReadKey();
```

The issue is that for the conditions inside the for loop, each should be divided by a ;, semicolon not with a comma.

7. Code with error

```
for(int I =1; i>10; i++) {
if (i>2) {
Console.WriteLine (“Flower”);
}
}
```

Code without error

```
for (int i = 1; i < 10; i++)
{
   if (i > 2)
   {
      Console.WriteLine("Flower");
   }
   Console.WriteLine("--------");
}
Console.WriteLine("finish");
Console.ReadKey();
```

The issue was that inside the for loop the i was written in capital or different from the other i’s. so change that i to simple letter and it will be fine.