Working with Variables

Continue working with the Classes_And_Variables project started in the previous part of the lesson.

We'll be adding additional code to ClassesAndVariables.java file, which will demonstrate some uses of variables within our application. Enter the highlighted code below, then review the output of the application. Verify that results, and jot down any questions you might have about the results you've seen.

```
public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);

        final TextView txtOut = (TextView) findViewById(R.id.txtOut);

        Computer oPC = new Computer();
        oPC.setCpu_speed(1200);
        oPC.setHd_size(500);
        oPC.setName("Alex's PC");
        oPC.setRam_size(4);
        oPC.setScreen_res("1920 x 1080");

        Notebook oNote = new Notebook();
        oNote.setCpu_speed(2000);
        oNote.setHd_size(320);
        oNote.setName("My Notebook");
        oNote.setRam_size(2);
        oNote.setScreen_res("1280 x 720");
        oNote.setForm_factor("Tablet PC");

        String sOut = "";

        //declaring variables
        char capitalC = 'C';
        int iCount = 0;
        short a, b, c;
        a = 10;
        b = 20;
        c = 5;

        String sText = "This is a string of text!";

        int[] iNums;
        iNums = new int[5];

        iNums[0] = 5;
        iNums[1] = 10;

        String[] sMessage = {
                        "Hello", //0
                        " ",     //1
                        "world!" //2
        };
                        //using variables
        sOut += "iCount++ = " + (iCount++) + "\n"; //0, then add 1 to it
        sOut += "++iCount = " + (++iCount) + "\n"; //2

        sOut += "iNums[0] + iNums[1] = " + iNums[0] + iNums[1] + "\n";//iNums[0] + iNums[1] = 510
        sOut += "iNums[0] + iNums[1] = " + (iNums[0] + iNums[1]) + "\n";//iNums[0] + iNums[1] = 15

        sOut += "a + b / c = " + (a + b / c) + "\n";//14 = 20 / 5 = 4, then 4 + 10 = 14
        sOut += "(a + b) / c = " + ((a + b) / c) + "\n"; //6 = 10 + 20 = 30, then 30 / 5 = 6

        //Concatenation
        sOut += sMessage[0] + sMessage[1] + sMessage[2] + "\n";

        double dNum = c;
        dNum += 1000.25;

        DecimalFormat Curr = new DecimalFormat("$#,###.##");
        sOut += "dNum = " + Curr.format(dNum) + "\n";

        String sNum1 = "10";
        String sNum2 = "20";

        sOut += "sNum1 + sNum2 = " + sNum1 + sNum2 + "\n"; //sNum1 + sNum2 = 1020;
        sOut += "sNum1 + sNum2 = " + (Integer.parseInt(sNum1) + Integer.parseInt(sNum2)) + "\n"; //30

        txtOut.setText(oPC.toString() + "\n" + oNote.toString() + "\n" + sOut);

}
```