**POINTERS**

Assignment 1

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**Challenge:**

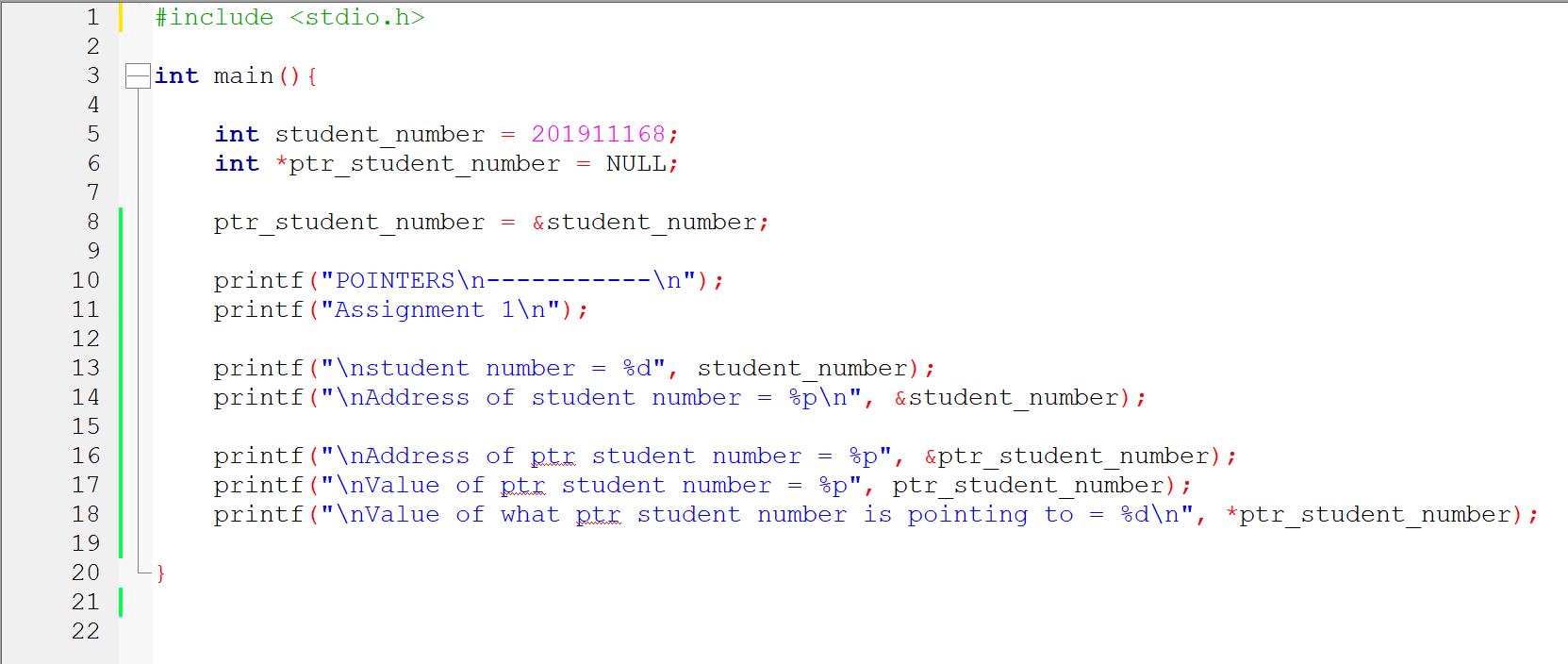
* Write a program that creates an integer variable with a hard-coded value equal to your student number (5 points).
* Assign that variable address to a pointer variable (5 points).
* Display as output the address of the pointer, the value of the pointer, and the value of what the pointer is pointing to. (20 points)

**Solution:**

My student number is *201911168*. I initialized a variable *int student\_number* with the value of *201911168*. I then made a another pointer variable called *\* ptr\_student\_number*, in which I placed a *NULL* value. I made my pointer variable equal to the address of the student\_number. For an added bonus, I outputted the student number first with its variable and its address using the ‘&’ symbol.

I then only used *ptr\_student\_number* as my variable to be used in different ways to get the specified result. To get the address of the pointer, I used ‘%p’ as the symbol to print the address of the pointer and used the ‘&’ symbol to point out the address of *ptr\_student\_number*, which is different from the just simply *ptr\_student\_number*. Afterwards, to get value of *ptr\_student\_number*, I did the same but without the ‘&’. This points to the address of *student\_number*. Lastly, we got the value of the *ptr\_student\_number* is pointing by knowing what data type it is, which is *int*, then deferencing *ptr\_student\_number* with using the ‘\*’ symbol before the variable. What this does is that it points the value of *student\_number* itself, which is *201911168*.

**Code:**



**Output:**

