

## Personal Reflections.

- The Personal Software Process is unnecessary if you have access to a high quality Integrated Development Environment.

The topic I pick this time is mainly talking about the necessary of PSP and unnecessary of it after using an Integrated Development Environment. Before I learn this course I never coding a size C or D program not using IDE. I have tried VC++, myEclipse, eclipse and first I using it I found it is really difficult but just after a few days I found it is really useful.

I think IDE is useful but the necessary of improving PSP can't be ignored.

The IDE combine a lot of useful tools together. Such as spell checking, automatic complete the words or API, compiling checking, debugging mode and other add-ons you can get. These tools is really useful but we also can see the bad effects it bring to us. For example, never checking the things after we typing it because the spell checking will highlight where we doing wrong. We never remembering the whole method of a class, we can just type the class and put our mouse on it and we can see all the variables, function and what kind of input and output we can use. After get used to the IDE we will forgot the basic skills of programming and this is the thing we don't expect to see.

After learning something about SPI, I found that the correctness of the coding is significant improved. I know PSP is a necessary because after we go to work, we will using different IDE and maybe some IDE made by some small company itself. At this kind of situation, we may not have so much tools helping us doing this lot of things. If we make a mistake just like an extra “;”, we may take a lot of time to find out where we did wrong because we don't have auto bug detector.

I will give an example of my own to proof how important this thing is. After I coding the program05, I found everything is right but the result is wrong. It takes me 3 hours to find out that I defined the degree of depth as an Integer and not a Double, so when I divide it by 2 it will give another Integer but not a Double result. But what we need is just a Double result. This kind of mistake is really not necessary and will waste a lot of time. If I plan and design well, this mistake will never happened.

IDE is just a tool to help us, we can use it but we shouldn't addicted to it.