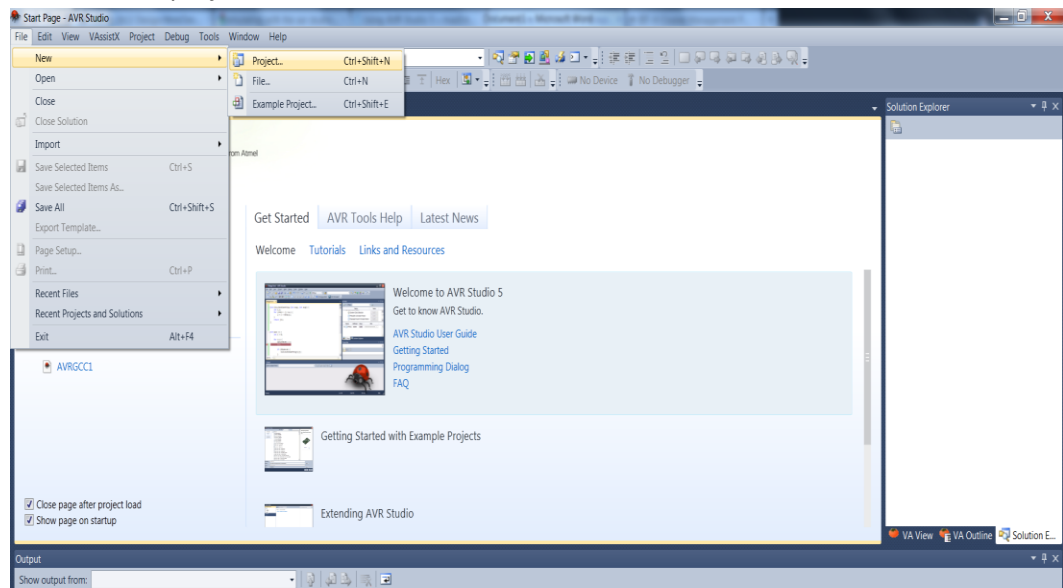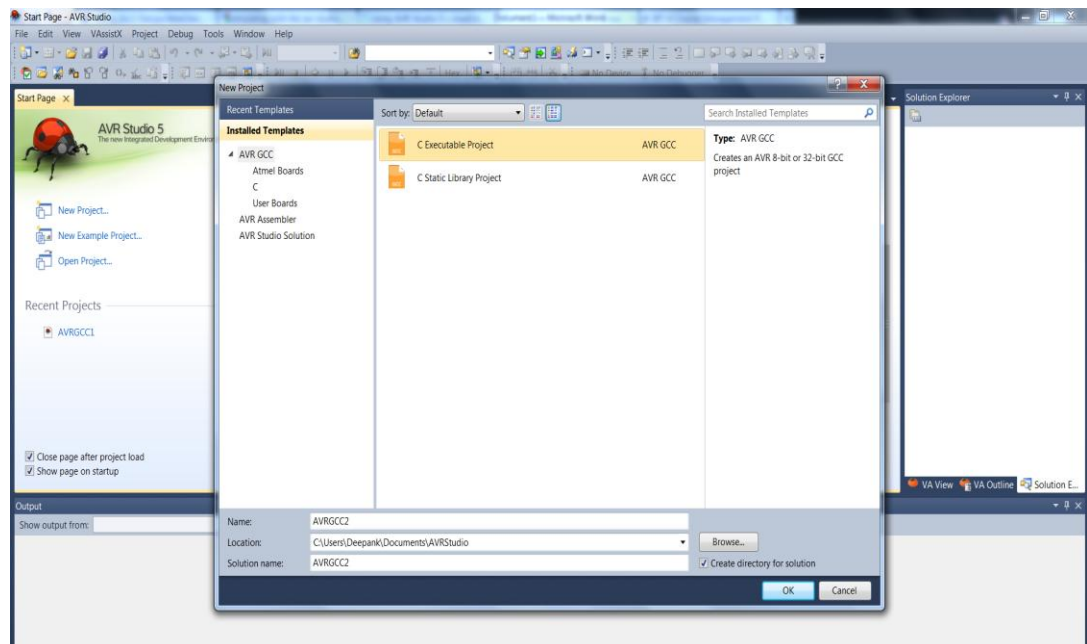# Simulator for AVR programming

AVR studio 5
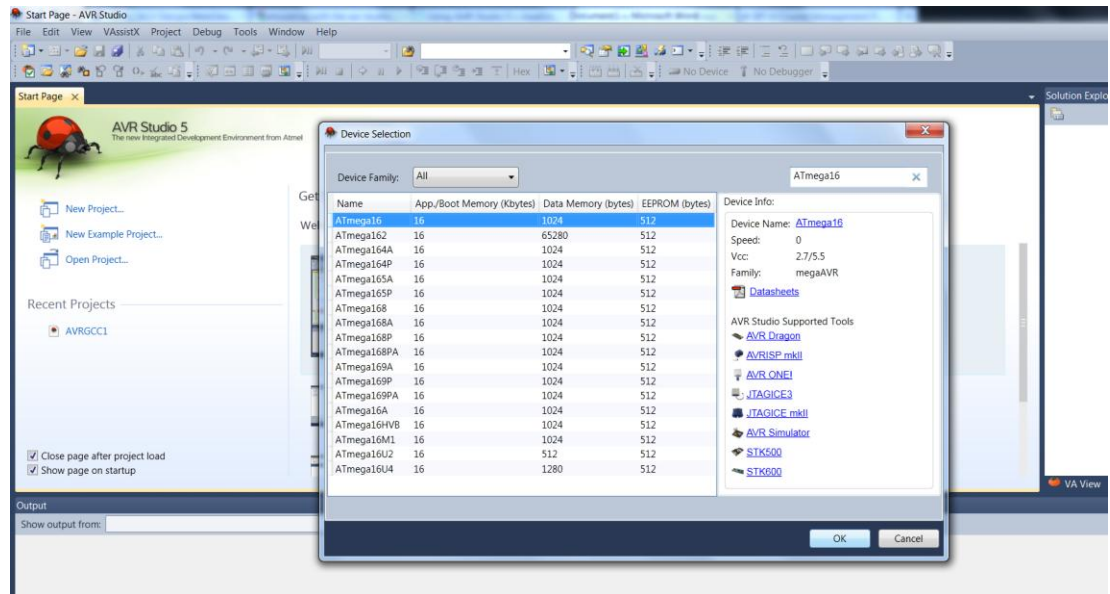
1. Installing the AVR studio 5
   a. Double click the installation file.
   b. Installer will first install the dot net frame work and then C shell etc.
   c. After above is done it will go ahead with the installation of the AVR studio. Installation will approximately take 20~30 minutes.
2. Making the code
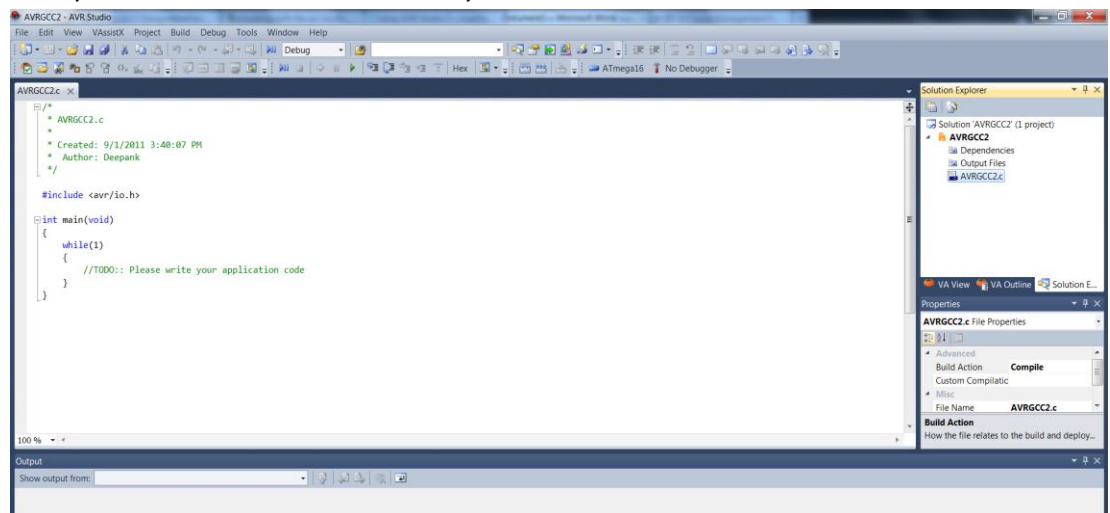   a. Run the AVR studio 5
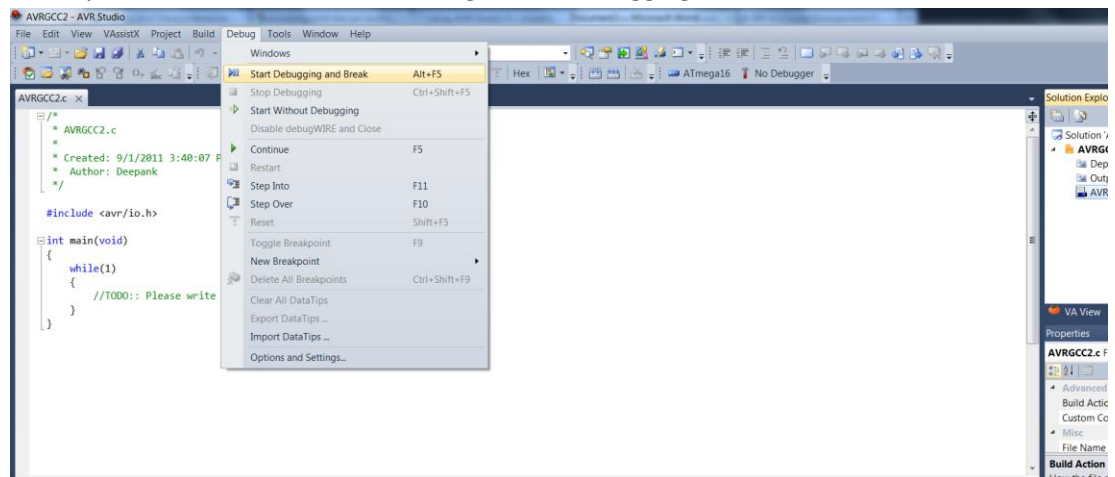   b. Go to "new->project"

   c. Select C executable and click ok

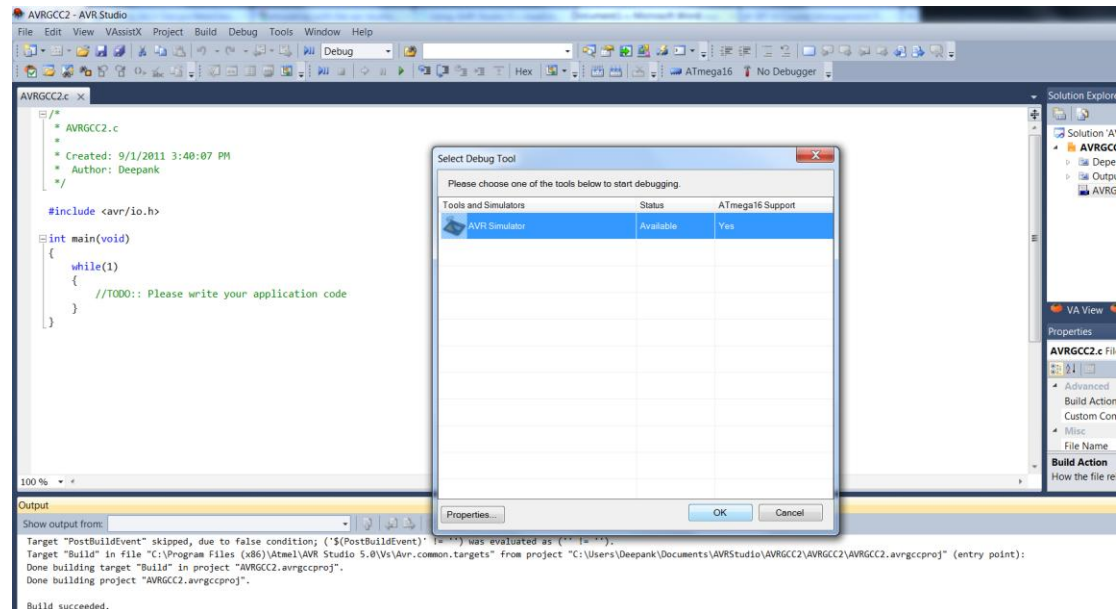d. After that search for MCU "ATmega16" and select that MCU

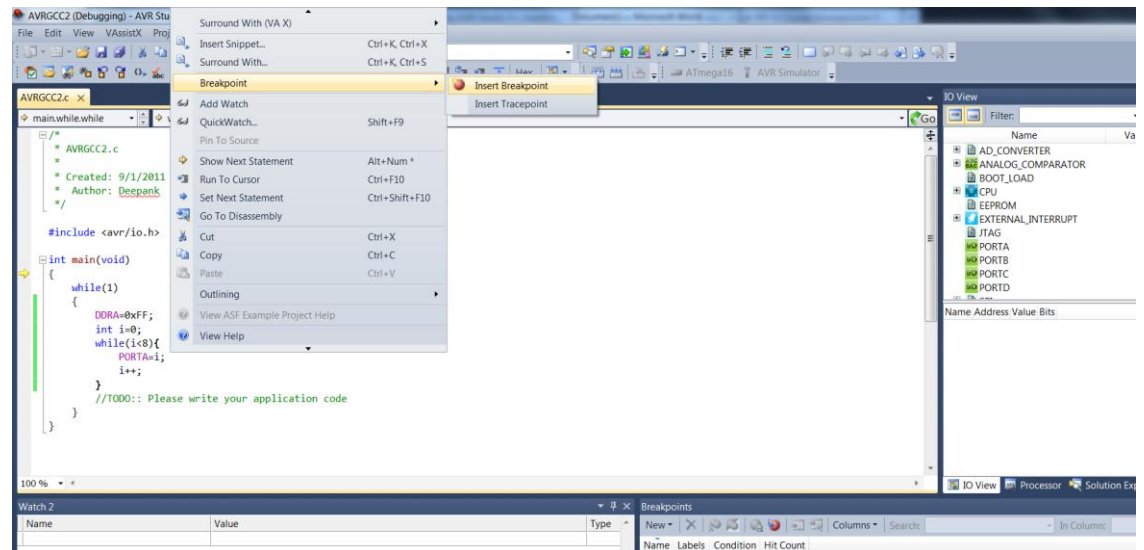e. Now you will have a window in which you can write the codes

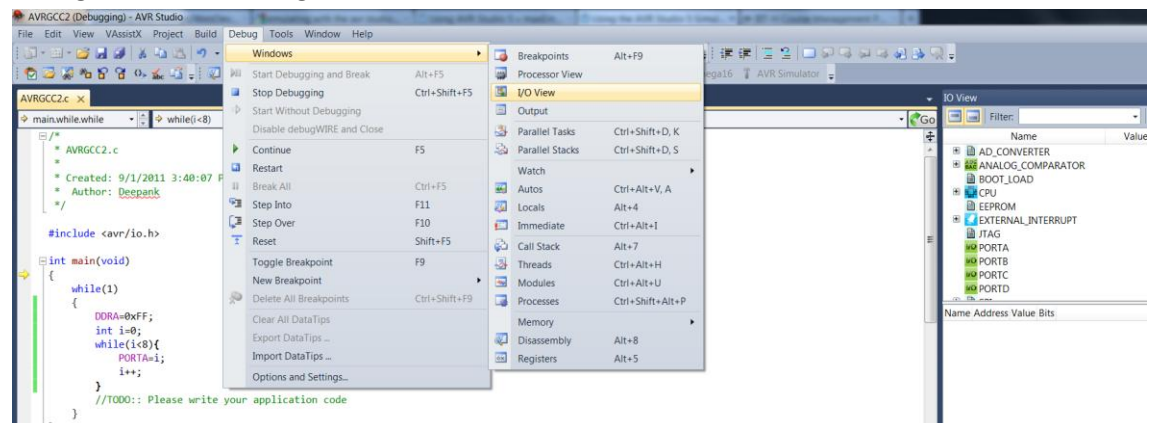f. Write your code and then click "Debug->Start Debugging and Break"

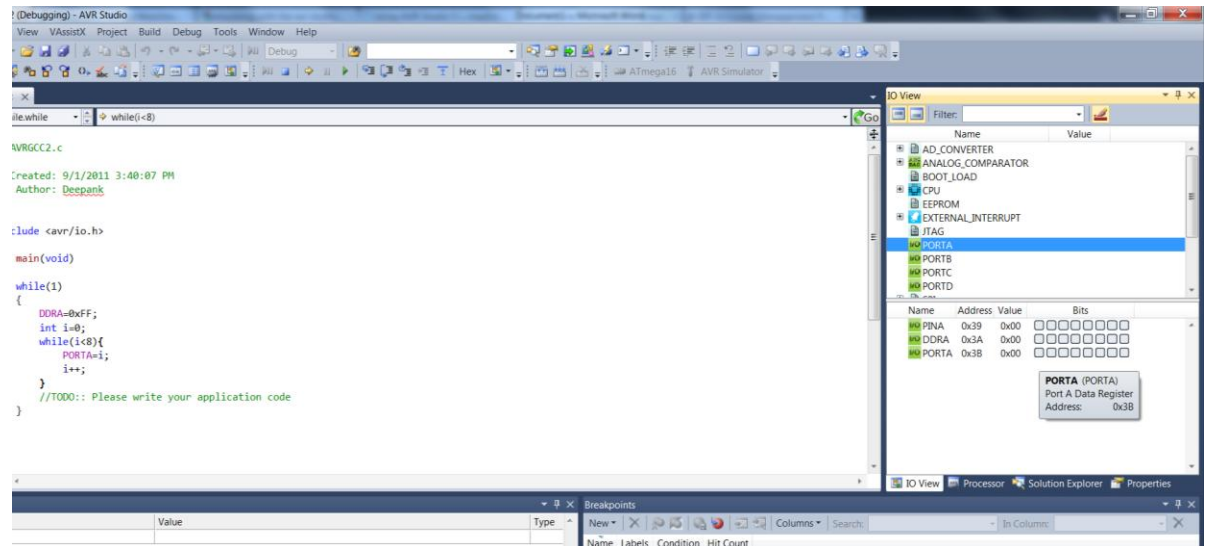g. Now you will be asked to choose a simulator, click "AVR Simulator" and press ok

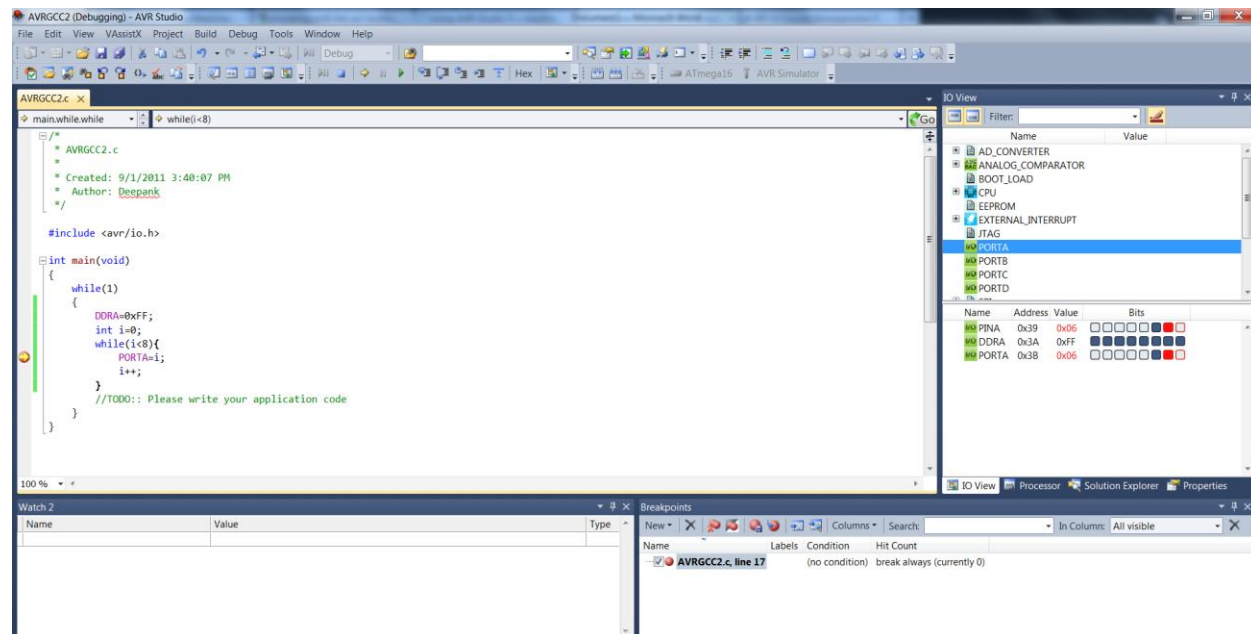h. Now right click at the line you want your code to check then insert break point

i. Now go and click "Debug->Windows->I/O view"

j. After above step you will have list of ports and register on right window pane.

k. Now select the port you want to monitor for change, say PORTA

l. Now press "F5" to run the code and see the changes in the register you have selected in I/O view.

Note: In case you have any problem you can post it on the threads on courses portal. Following links can help you further.

Link-1,Link-2