

# ECE3520 Lab Session 2: Configuring STK500 Using AVR Studio

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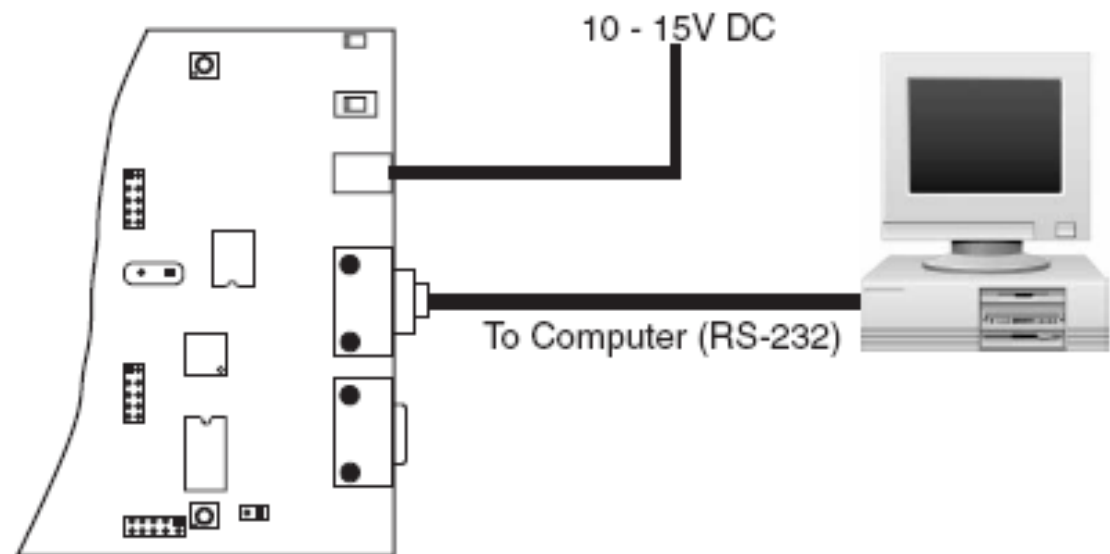
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## Step-1: Connect the RS-232 Port

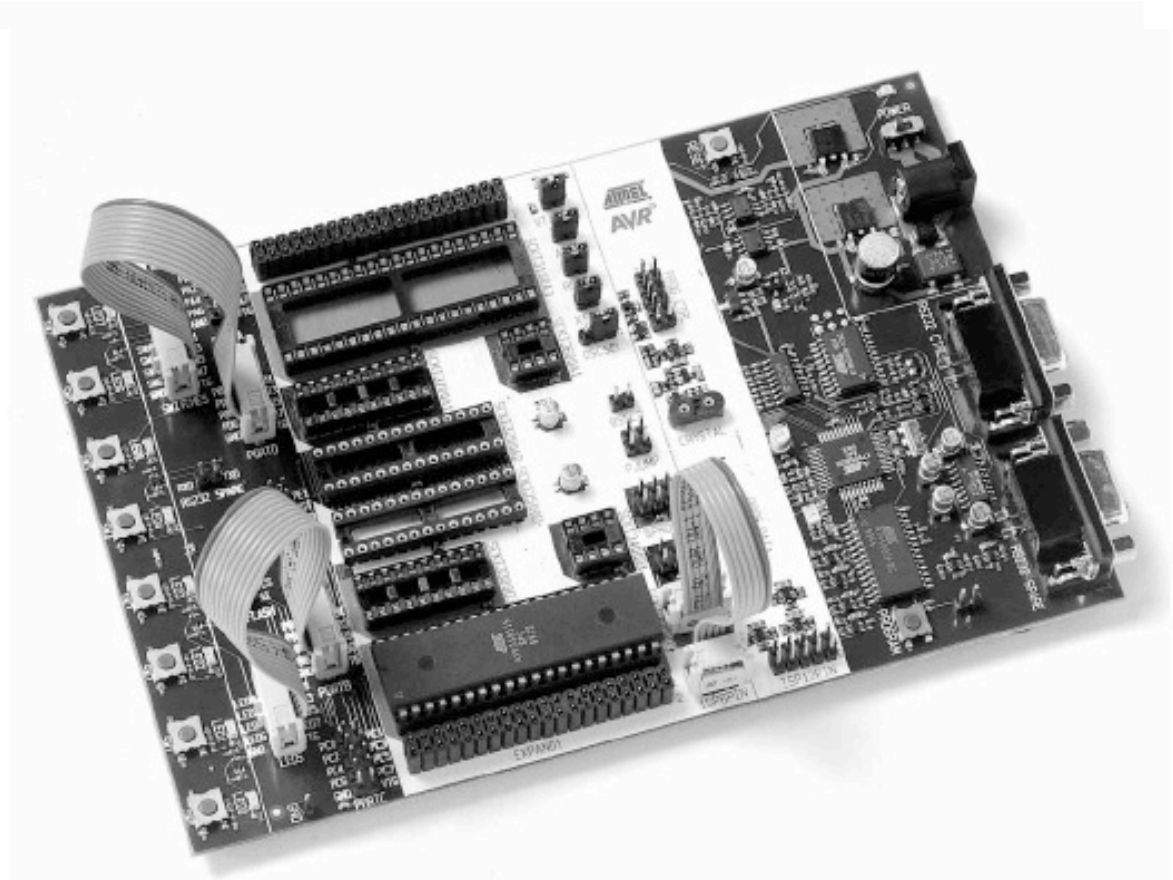
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- Connect the RS-232 Port for Programming (middle one) of STK500 board to PC serial port using the 9-pin RS-232 cable.



## Step-2: Default Setup & Power on

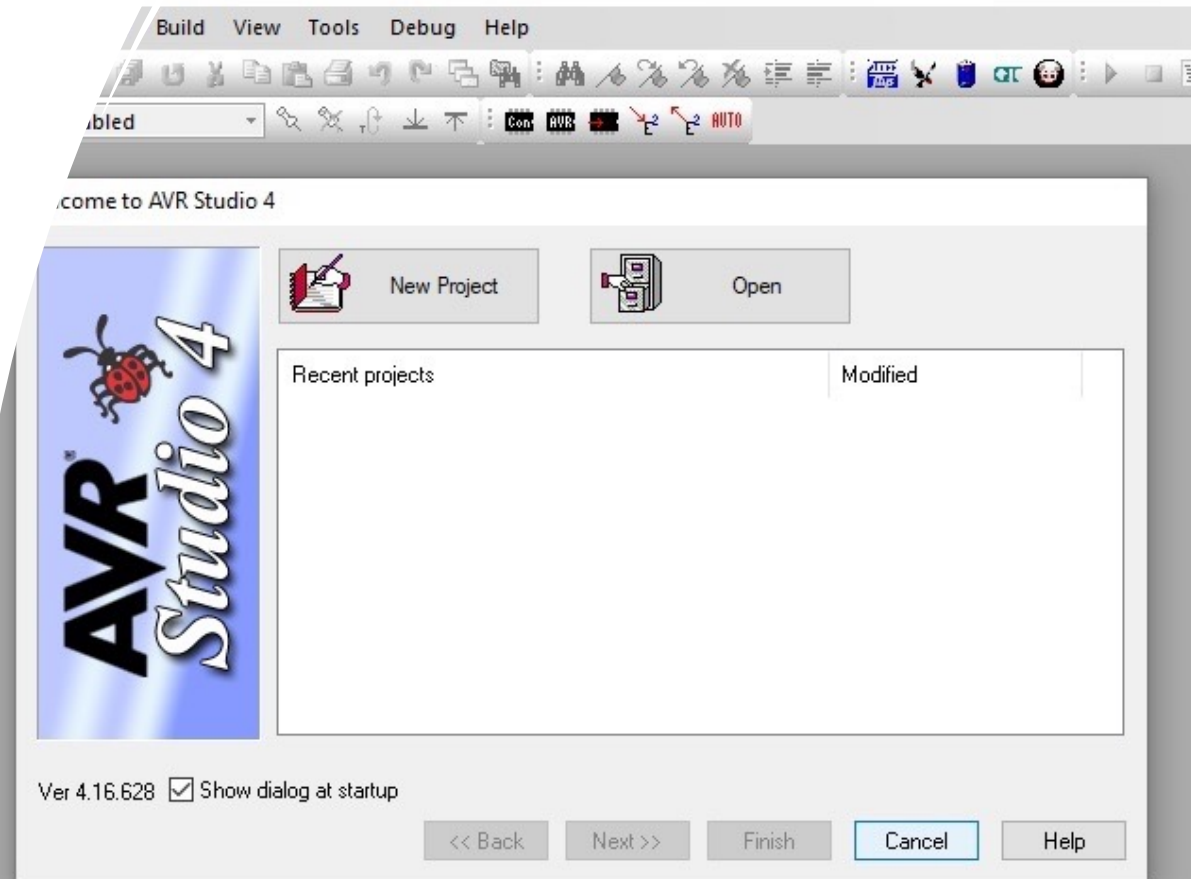
- Keep default setup for STK500 (As experiment 1),
- Plug in the AC power adapter.
- Turn the power switch on the left upper corner of STK500 board.



# Step-3: Start AVR Studio

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- Start AVR studio from Start Menu.
- Press Cancel for now, when it will open a dialog box with 'New Project' and 'Open' button on the top.



## Step-4: Start STK500 interface

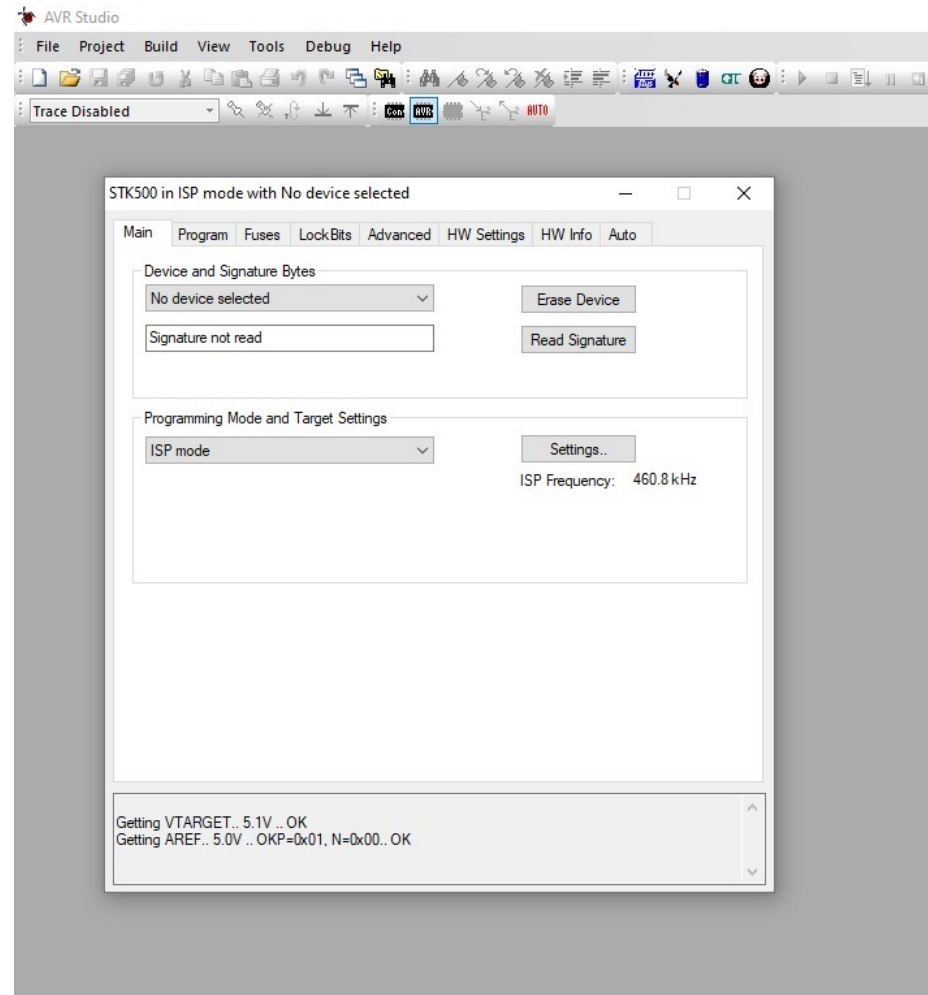
- Start STK500 interface by clicking AVR button (black IC shaped icon with AVR written on it) on the toolbar.



## Step-5: Configure device and programming mode

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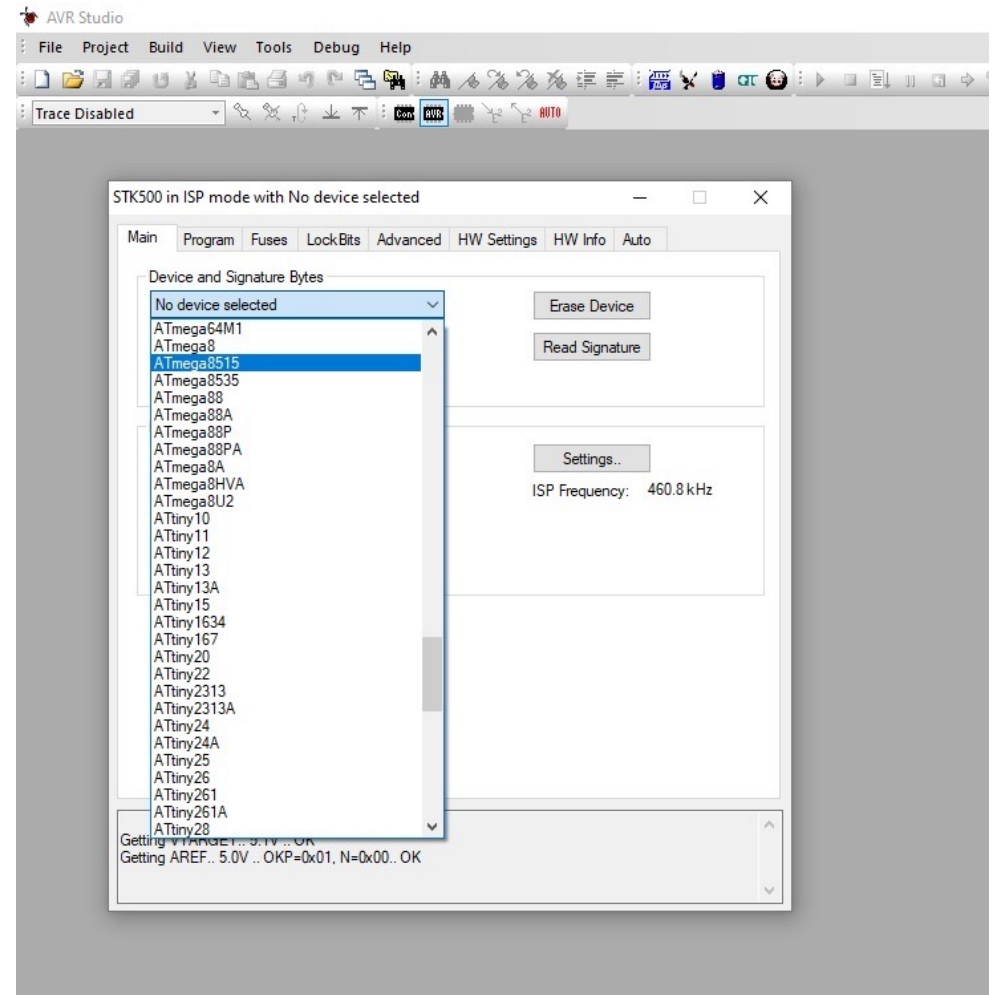
- Click Main tab



## Step-6: Configure device and programming mode

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- Configure Device

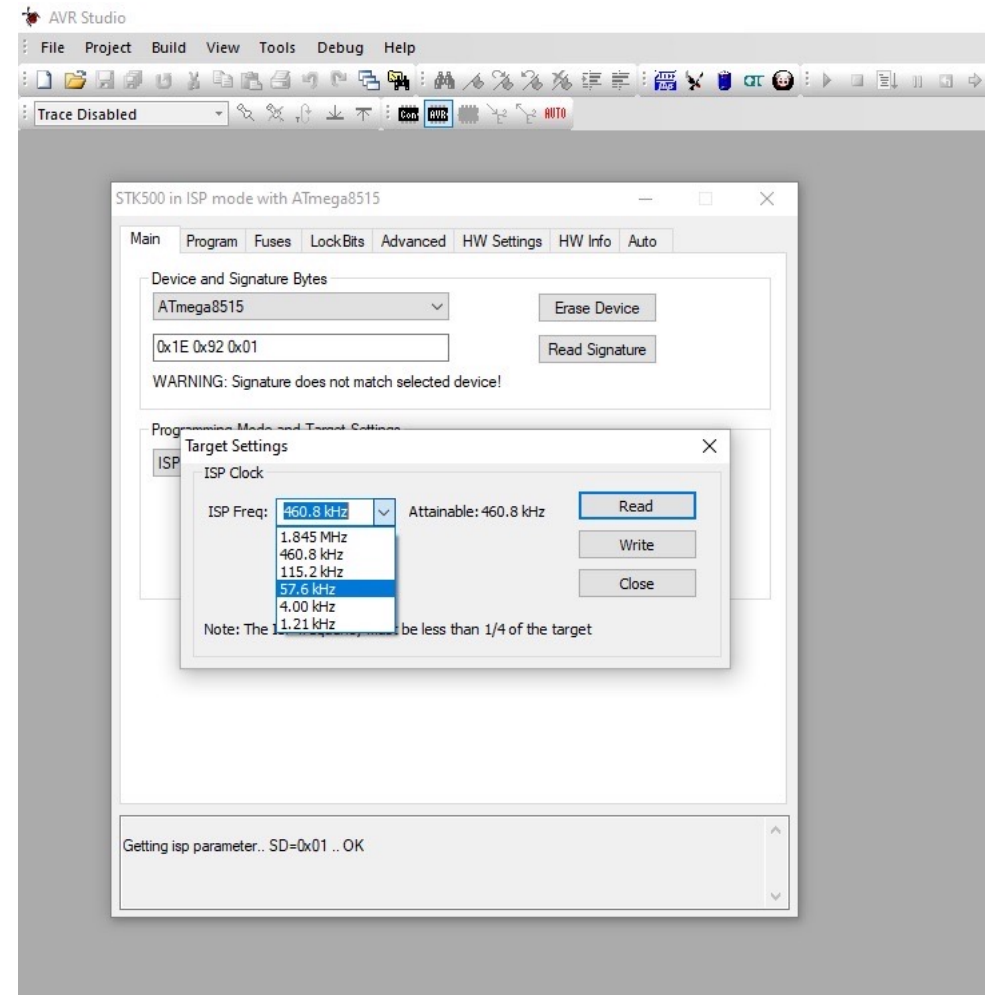


## Step-7: Configure device and programming mode

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- Configure Programming

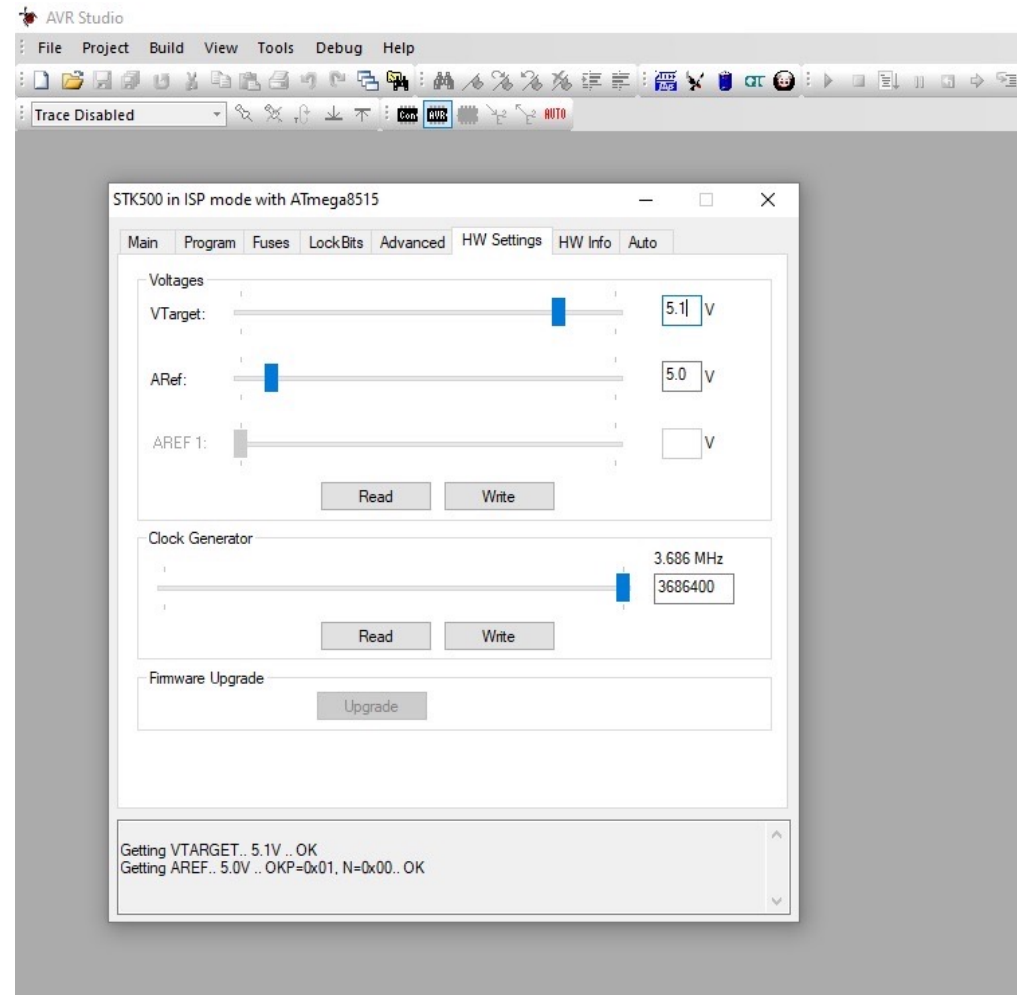
Note: The ISP frequency must be less than  $\frac{1}{4}$  of the target.





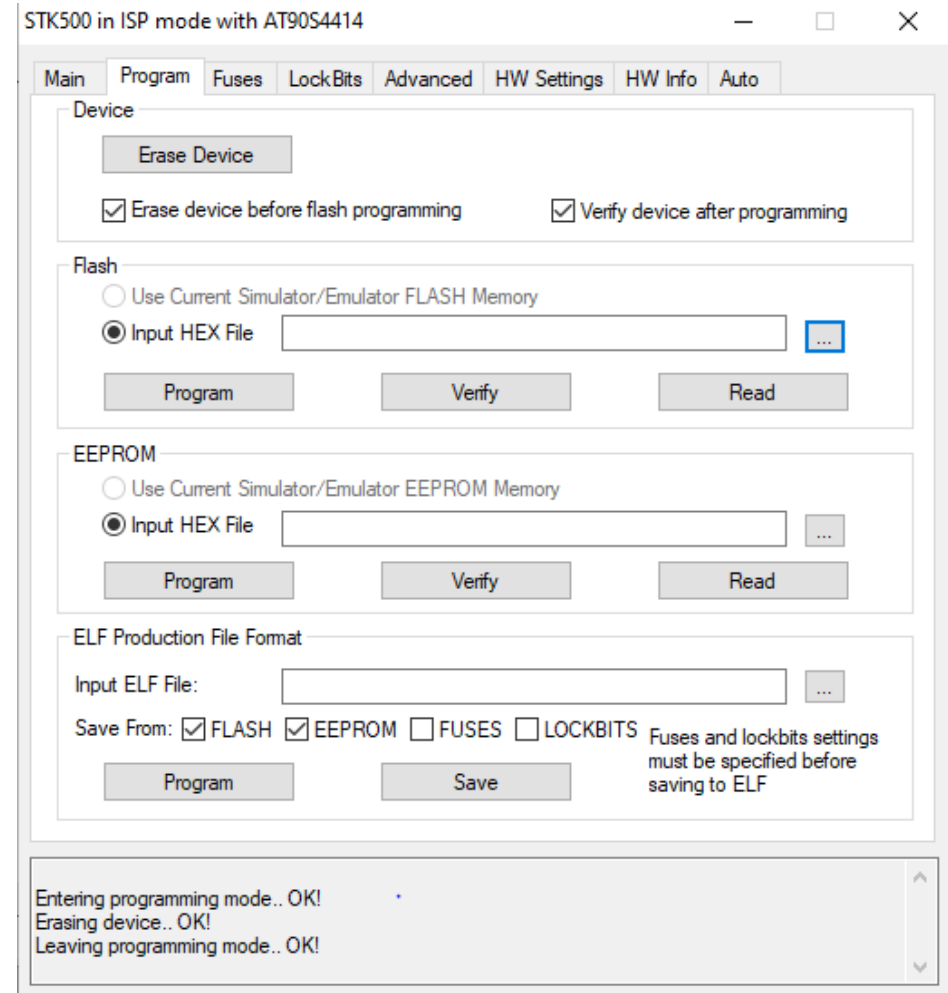
## Step-8: Configure Voltages and Clock frequency

- Open HW Settings tab
- Configure Voltages
- Configure Clock frequency



# Step-9: Explore other tabs

- Explore other tabs in STK500 Programmer



# Step-10: Explore other tabs

- Explore other tabs in STK500 Programmer

