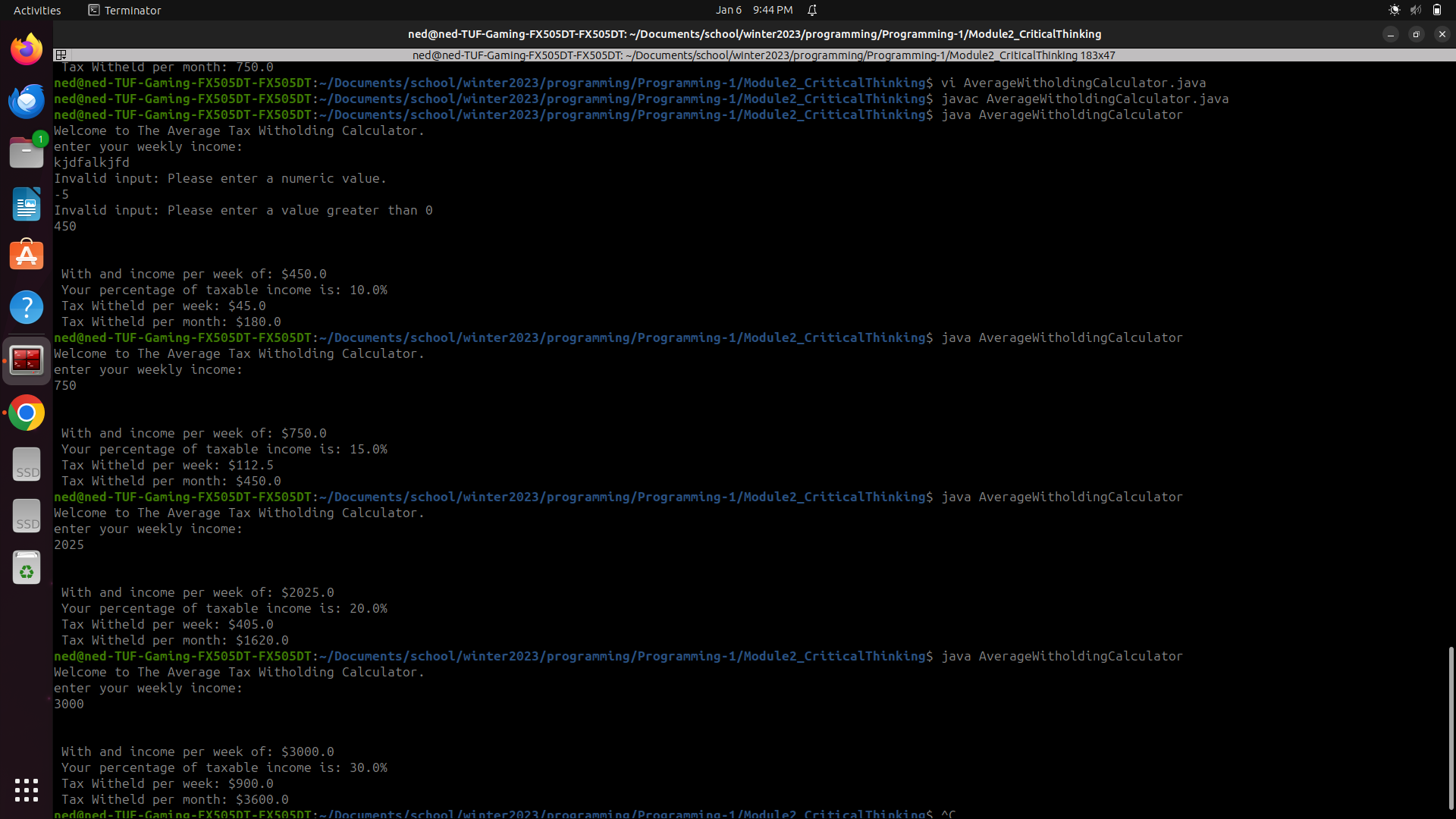
**Pseudocode**:

**Source Code:**

**Screen Shot: (**Executed 4 times to verify all 4 cases.**)**



**Github:**