

**Objective:** Build a tax calculator in Python that is capable of calculating a person's net income after tax, given his or her income and demographic attributes.

**Description:** Taxes can be complicated. The challenge here is to simplify tax calculation through a Python rule engine. The rule engine will be based on the following indicative tax rules, derived from the Indian income tax laws as a reference:

Income Tax Slabs	Tax Rate for Below the Age Of 60 Years	Tax Rate for Women and Above the Age Of 60 Years
Up to ₹2,50,000*	Nil	Nil
₹2,50,001 to ₹5,00,000	5% of total income exceeding ₹2,50,000	3% of total income exceeding ₹2,50,000
₹5,00,001 to ₹10,00,000	₹12,500 + 20% of total income exceeding ₹5,00,000	₹7,500 + 20% of total income exceeding ₹5,00,000
Above ₹10,00,000	₹1,12,500 + 30% of total income exceeding ₹10,00,000	₹1,07,500 + 30% of total income exceeding ₹10,00,000

Under ITR Rule, your investment (up to ₹1,00,000) amount can be deducted from your taxable income. For example, if your income is ₹5,00,000 and you have invested ₹50,000 then your taxable income is ₹4,50,000.

An additional 4% Health & education cess will be applicable on the tax amount calculated as above. For example if you are to pay ₹20,000 as tax then you have to pay additionally  $20000 * 0.4 = ₹800$  as cess.