



outline a python program to calculate federal income tax



Here's an outline of a program in Python to calculate federal income tax:

yaml

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```
def calculate_tax(income):
    if income <= 9525:
        tax = income * 0.1
    elif income <= 38700:
        tax = 9525 * 0.1 + (income - 9525) * 0.12
    elif income <= 82500:
        tax = 9525 * 0.1 + (38700 - 9525) * 0.12 + (income - 38700) * 0.15
    elif income <= 157500:
        tax = 9525 * 0.1 + (38700 - 9525) * 0.12 + (82500 - 38700) * 0.15 + (income - 82500) * 0.18
    elif income <= 200000:
        tax = 9525 * 0.1 + (38700 - 9525) * 0.12 + (82500 - 38700) * 0.15 + (157500 - 82500) * 0.18 + (income - 157500) * 0.2
    elif income <= 500000:
        tax = 9525 * 0.1 + (38700 - 9525) * 0.12 + (82500 - 38700) * 0.15 + (157500 - 82500) * 0.18 + (200000 - 157500) * 0.2 + (income - 200000) * 0.25
    else:
        tax = 9525 * 0.1 + (38700 - 9525) * 0.12 + (82500 - 38700) * 0.15 + (157500 - 82500) * 0.18 + (200000 - 157500) * 0.2 + (500000 - 200000) * 0.25 + (income - 500000) * 0.3
    return tax
```

```
income = float(input("Enter your income: "))
```

