

```
class TaxCalculator:  
    def __init__(self, status, income):  
        self.status = status  
        self.income = income  
  
    def calculate_tax(self):  
        tax = 0  
  
        if self.status == 0:  
            if self.income <= 8350:  
                tax = self.income * 0.10  
            elif self.income <= 33950:  
                tax = 8350 * 0.10 + (self.income - 8350) * 0.15  
            elif self.income <= 82250:  
                tax = 8350 * 0.10 + (33950 - 8350) * 0.15 + (self.income -  
33950) * 0.25  
            else:  
                tax = 8350 * 0.10 + (33950 - 8350) * 0.15 + (82250 - 33950) *  
0.25
```

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elif self.status == 1:  
    if self.income <= 16700:  
        tax = self.income * 0.10  
    elif self.income <= 67900:  
        tax = 16700 * 0.10 + (self.income - 16700) * 0.15  
    else:  
        tax = 16700 * 0.10 + (67900 - 16700) * 0.15
```

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elif self.status == 2:  
    if self.income <= 8350:  
        tax = self.income * 0.10  
    elif self.income <= 33950:  
        tax = 8350 * 0.10 + (self.income - 8350) * 0.15  
    else:
```

$$\text{tax} = 8350 * 0.10 + (33950 - 8350) * 0.15$$

```
elif self.status == 3:  
    if self.income <= 11950:  
        tax = self.income * 0.10  
    elif self.income <= 45500:  
        tax = 11950 * 0.10 + (self.income - 11950) * 0.15  
    else:  
        tax = 11950 * 0.10 + (45500 - 11950) * 0.15  
  
return tax
```

```
print("Enter filing status:")  
print("0 - Single")  
print("1 - Married Filing Jointly")  
print("2 - Married Filing Separately")  
print("3 - Head of Household")
```

```
status = int(input("Status: "))  
income = float(input("Taxable income: "))
```

```
tax_object = TaxCalculator(status, income)  
tax = tax_object.calculate_tax()
```

```
print("Your tax is $", round(tax, 2))
```