

```
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
```

```
        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
```

```
        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))
```