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fullname= input("Enter your fullname(lastname first): ")
print(f"Good day {fullname}, this program is used to calculate your personal income tax; kindly follow each instruction given")
filing_status=int(input("Enter your filing status(Enter 0 for single filers, 1 for married filing jointly or qualified widow(er), 2 for married filing separately, and 3 for head of household): "))
income=int(input("Enter your taxable income: "))

if filing_status == 0:
    if income <= 8350:
        tax = income × 0.10
    elif income <= 33950:
        tax = 8350 × 0.10 + (income - 8350) × 0.15
    elif income <= 82250:
        tax = 8350 × 0.10 + (33950 - 8350) × 0.15 + (income - 33950) × 0.25
    elif income <= 171550:
        tax = 8350 × 0.10 + (33950 - 8350) × 0.15 + (82250 - 33950) × 0.25 + (income - 82250) × 0.28
    elif income <= 372950:
        tax = 8350 × 0.10 + (33950 - 8350) × 0.15 + (82250 - 33950) × 0.25 + (171550 - 82250) × 0.28 + (income - 171550) × 0.33
    else:
        tax = 8350 × 0.10 + (33950 - 8350) × 0.15 + (82250 - 33950) × 0.25 + (171550 - 82250) × 0.28 + (372950 - 171550) × 0.33 + (income - 372950) × 0.35

elif filing_status == 1: # Married Filing Jointly
    if income <= 16700:
        tax = income × 0.10
    elif income <= 67900:
        tax = 16700 × 0.10 + (income - 16700) × 0.15
    elif income <= 137050:
        tax = 16700 × 0.10 + (67900 - 16700) × 0.15 + (income - 67900) × 0.25
    elif income <= 208850:
        tax = 16700 × 0.10 + (67900 - 16700) × 0.15 + (137050 - 67900) × 0.25 + (income - 137050) × 0.28
    elif income <= 372950:
        tax = 16700 × 0.10 + (67900 - 16700) × 0.15 + (137050 - 67900) × 0.25 + (208850 - 137050) × 0.28 + (income - 208850) × 0.33
    else:
        tax = 16700 × 0.10 + (67900 - 16700) × 0.15 + (137050 - 67900) × 0.25 + (208850 - 137050) × 0.28 + (372950 - 208850) × 0.33 + (income - 372950) × 0.35

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elif filing_status == 2: # Married Filing Separately
    if income <= 8350:
        tax = income × 0.10
    elif income <= 33950:
        tax = 8350 × 0.10 + (income - 8350) × 0.15
    elif income <= 68525:
        tax = 8350 × 0.10 + (33950 - 8350) × 0.15 + (income - 33950) × 0.25
    elif income <= 104425:
        tax = 8350 × 0.10 + (33950 - 8350) × 0.15 + (68525 - 33950) × 0.25 + (income - 68525) ×
0.28
    elif income <= 186475:
        tax = 8350 × 0.10 + (33950 - 8350) × 0.15 + (68525 - 33950) × 0.25 + (104425 - 68525) ×
0.28 + (income - 104425) × 0.33
    else:
        tax = 8350 × 0.10 + (33950 - 8350) × 0.15 + (68525 - 33950) × 0.25 + (104425 - 68525) ×
0.28 + (186475 - 104425) × 0.33 + (income - 186475) × 0.35

elif filing_status == 3: # Head of Household
    if income <= 11950:
        tax = income × 0.10
    elif income <= 45500:
        tax = 11950 × 0.10 + (income - 11950) × 0.15
    elif income <= 117450:
        tax = 11950 × 0.10 + (45500 - 11950) × 0.15 + (income - 45500) × 0.25
    elif income <= 190200:
        tax = 11950 × 0.10 + (45500 - 11950) × 0.15 + (117450 - 45500) × 0.25 + (income - 117450)
× 0.28
    elif income <= 372950:
        tax = 11950 × 0.10 + (45500 - 11950) × 0.15 + (117450 - 45500) × 0.25 + (190200 - 117450)
× 0.28 + (income - 190200) × 0.33
    else:
        tax = 11950 × 0.10 + (45500 - 11950) × 0.15 + (117450 - 45500) × 0.25 + (190200 - 117450)
× 0.28 + (372950 - 190200) × 0.33 + (income - 372950) × 0.35

else:
    print("Invalid filing status")
    tax = 0

print("Total personal_income_tax is:", (tax))

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