Lab 3 Pseudocode

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Import java.util.Scannar
public class CalculateTaxes
public static void main(string[] args)
Scanner in -> new Scanner(System.in)
Print “Are you a single filer or a married joint filer (enter 's' or 'j'):”
String inputStatus -> in.next()
Print “Enter an estimate of your earned income for 2022:”
double inputIncome -> in.next()

//single tax amount
double singleTenPercent -> inputIncome * 0.10
double singleTwelvePercent -> (inputIncome-10275) * 0.12 + singleTenPercent
double singleTwentyTwoPercent -> (inputIncome-41775) * 0.22 + singleTwelvePercent
double singleTwentyFourPercent -> (inputIncome-89075) * 0.24 + singleTwnetyTwoPercent
double singleThirtyTwoPercent -> (inputIncome-170050) * 0.32 + singleTwentyFourPercent
double singleThirtyFivePercent -> (inputIncome-215950) * 0.35 + singleTheirtyTwoPercent
double singleThirtySevenPercent -> (inputIncome-539900) * 0.37 + singleTheirtyFivePercent
//married tax amount
double marriedTenPercent -> inputIncome * 0.10
double marriedTwelvePercent -> (inputIncome-20550) * 0.12 + marriedTenPercent
double marriedTwentyTwoPercent -> (inputIncome-83550) * 0.22 + marriedTwelvePercent
double marriedTwentyFourPercent -> (inputIncome-178150) * 0.24 + marriedTwnetyTwoPercent
double marriedThirtyTwoPercent -> (inputIncome-340100) * 0.32 + marriedTwentyFourPercent
double marriedThirtyFivePercent -> (inputIncome-432900) * 0.35 + marriedTheirtyTwoPercent
double marriedThirtySevenPercent -> (inputIncome-647850) * 0.37 +
      marriedTheirtyFivePercent
//Single tax rate
double singleTenTaxRate -> singleTenPercent/inputIncome *100
double singleTwelveTaxRate -> singleTwelvePercent/inputIncome *100
double singleTwentyTwoTaxRate -> singleTwentyTwoPercent/inputIncome *100
double singleTwentyFourTaxRate -> singleTwentyFourPercent/inputIncome *100
double singleThirtyTwoTaxRate -> singleThirtyTwoPercent/inputIncome *100
double singleThirtyFiveTaxRate -> singleThirtyFivePercent/inputIncome *100
double singleThirtySevenTaxRate -> singleThirtySevenPercent/inputIncome *100
//Married tax rate
double marriedTenTaxRate -> singleTenPercent/inputIncome *100
double marriedTwelveTaxRate -> singleTwelvePercent/inputIncome *100
double marriedTwentyTwoTaxRate -> singleTwentyTwoPercent/inputIncome *100
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double marriedTwentyFourTaxRate -> singleTwentyFourPercent/inputIncome *100
double marriedThirtyTwoTaxRate -> singleThirtyTwoPercent/inputIncome *100
double marriedThirtyFiveTaxRate -> singleThirtyFivePercent/inputIncome *100
double marriedThirtySevenTaxRate -> singleThirtySevenPercent/inputIncome *100



      if inputStatus -> ‘s’
            if inputIncome >= 0 and inputIncome <= 10275
                  printf “Your estimated taxes for 2023 are: $%.2f%n”, singleTenPercent
                  printf “This result in an %.1f%% effective tax rate .%n”,
      singleTenTaxRate
            else if inputIncome >= 10276 and inputIncome <= 41775
                  printf “Your estimated taxes for 2023 are: $%.2f%n”, singleTwelvePercent
                  printf “This result in an %.1f%% effective tax rate .%n”,
      singleTwelveTaxRate
            else if inputIncome >= 41776 and inputIncome <= 89075
                  printf “Your estimated taxes for 2023 are: $%.2f%n”,
      singleTwentyTwoPercent
                  printf “This result in an %.1f%% effective tax rate .%n”,
      singleTwentyTwoTaxRate
            else if inputIncome >= 89076 and inputIncome <= 170050
                  printf “Your estimated taxes for 2023 are: $%.2f%n”,
      singleTwentyFourPercent
                  printf “This result in an %.1f%% effective tax rate .%n”,
      singleTwentyFourTaxRate
            else if inputIncome >= 170051 and inputIncome <= 215950
                  printf “Your estimated taxes for 2023 are: $%.2f%n”,
      singleThirtyTwoPercent
                  printf “This result in an %.1f%% effective tax rate .%n”,
      singleThirtyTwoTaxRate
            else if inputIncome >= 215951 and inputIncome <= 539900
                  printf “Your estimated taxes for 2023 are: $%.2f%n”,
      singleThirtyFivePercent
                  printf “This result in an %.1f%% effective tax rate .%n”,
      singleThirtyFiveTaxRate
            else if inputIncome >= 539901
                  printf “Your estimated taxes for 2023 are: $%.2f%n”,
      singleThirtySevenPercent
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            printf “This result in an %.1f%% effective tax rate .%n”,
singleThirtySevenTaxRate

else if inputStatus -> ‘j’
      if inputIncome >= 0 and inputIncome <= 20550
            printf “Your estimated taxes for 2023 are: $%.2f%n”, marriedTenPercent
            printf “This result in an %.1f%% effective tax rate .%n”,
marriedTenTaxRate
      else if inputIncome >= 10276 and inputIncome <= 83550
            printf “Your estimated taxes for 2023 are: $%.2f%n”,
marriedTwelvePercent
            printf “This result in an %.1f%% effective tax rate .%n”,
marriedTwelveTaxRate
      else if inputIncome >= 41776 and inputIncome <= 178150
            printf “Your estimated taxes for 2023 are: $%.2f%n”,
marriedTwentyTwoPercent
            printf “This result in an %.1f%% effective tax rate .%n”,
marriedTwentyTwoTaxRate
      else if inputIncome >= 89076 and inputIncome <= 340100
            printf “Your estimated taxes for 2023 are: $%.2f%n”,
marriedTwentyFourPercent
            printf “This result in an %.1f%% effective tax rate .%n”,
marriedTwentyFourTaxRate
      else if inputIncome >= 170051 and inputIncome <= 431900
            printf “Your estimated taxes for 2023 are: $%.2f%n”,
marriedThirtyTwoPercent
            printf “This result in an %.1f%% effective tax rate .%n”,
marriedThirtyTwoTaxRate
      else if inputIncome >= 215951 and inputIncome <= 647850
            printf “Your estimated taxes for 2023 are: $%.2f%n”,
marriedThirtyFivePercent
            printf “This result in an %.1f%% effective tax rate .%n”,
marriedThirtyFiveTaxRate
      else if inputIncome >= 647851
            printf “Your estimated taxes for 2023 are: $%.2f%n”,
marriedThirtySevenPercent
            printf “This result in an %.1f%% effective tax rate .%n”,
marriedThirtySevenTaxRate
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else
      print “This is not a valid input”
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