**Lab 3 Pseudocode**

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

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

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

else

print “This is not a valid input”