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Computer Science 31

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Project 2 Report

Issues: I didn’t have many issues while doing this project, although, I had to rewrite some code regarding child tax reduction as I initially used a loop, which isn’t allowed for this project. I also had some trouble when XCode began auto-tabbing my code, which was different from compilers I have used in the past, but acts as a helpful feature.

Test Cases:

For all cases, let the name be *Bob*

Lowest Tax Bracket Only (Bob, 45000, construction worker, 0)

Lowest Tax Bracket with Kids (Bob, 45000, soldier, 3)

Middle Tax Bracket Only (Bob, 95000, worker, 0)

Middle Tax Bracket with Special Job and Kids (Bob, 95000, teacher, 2)

Upper Tax Bracket Only (Bob, 145000, chef, 0)

Upper Tax Bracket with Special Job (Bob, 145000, nurse, 0)

Upper Tax Bracket with Special Job and Kids (Bob, 145000, nurse, 4)

Cases that fail or return unexpected results:

Non-Integer or Non-Double for Income (Bob, fifteen, cook, 0)

String for Number of Kids (Bob, 75000, business owner, five)

Double for Number of Kids (Bob, 75000, cop, 3.4)

Providing an Empty String for Income (Bob, “” (return), cook, 0)

Providing an Empty String for Income (Bob, “” (return), cook, 0)

Providing an Empty String for Number of Kids (Bob, 400000, surgeon, “” (return))