

PROJECT 1 USER MANUAL

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1. Executing the Program for Project 1

This program will calculate the taxable income and the federal income tax of an unmarried person, and output their social security number, gross income, taxable income and federal income tax.

2. Inputs

2.1 Input Requirements

This program needs the user to input their social security number, the social security number is valid if only if: 9 digits, not all zeroes, without whitespaces nor special characters. The program will prompt the user to input their gross income, the gross income is valid if only if: the number is greater than 0.

2.2 Input restrictions

Valid social security number is 9 digits, non-all zeroes' digits (000000000), no letter (a, b, c, A, B, C etc...), no whitespaces (' '), and no special characters(!,@,#,\$,%,&,*,< etc...).

Valid gross income is a number greater than 0.

3. Output

The program output is sent to the console and consists of a message in case of invalid input and the user's information such as social security number, gross income, taxable income and federal income tax.

4. Sample output:

Please enter your Social Security Number:

000000000

Invalid Social Security Number!

Enter a SSN of exactly 9 digits, without whitespaces nor special characters!

Please enter your Social Security Number:

1234567%

Invalid Social Security Number!

Enter a SSN of exactly 9 digits, without whitespaces nor special characters!

Please enter your Social Security Number:

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Invalid Social Security Number!

Enter a SSN of exactly 9 digits, without whitespaces nor special characters!

Please enter your Social Security Number:

000000001

Please enter your gross income:

24649

Your social security number is 000000001.

Your gross income is 24649.00 \$.

Your taxable income is 24649.00 \$.

Your federal income tax due is 3697.35 \$.

Would you like to start over? (Y/N):

y

Please enter your Social Security Number:

123456789

Please enter your gross income:

59749

Your social security number is 123456789.

Your gross income is 59749.00 \$.

Your taxable income is 35099.00 \$.

Your federal income tax due is 20427.22 \$.