

# Laboratory work 3

all programs are written in  python3 `**`

## problem 1

Write a program that ask the user a four-digit number and tells the user if the number is a *"happy"* number. A *"happy"* number is a symmetrical number of the type:

- 5995
- 9339
- 4994

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## problem 2

In one state, single residents are subject to the following income tax:

Income	Amount of tax
Not over \$750	1% of income
\$750-\$2,250	\$7.50 plus 2% of amount over \$750
\$2,250-\$3,750	\$37.50 plus 3% of amount over \$2,250
\$3,750-\$5,250	\$82.50 plus 4% of amount over \$3,750
\$5,250-\$7,000	\$142.50 plus 5% of amount over \$5,250
Over \$7,000	\$230.00 plus 6% of amount over \$7,000

Write a program that asks the user to enter the amount of taxable income, then displays the tax due.

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## problem 3

Write a program that asks the user for a two-digit number, then prints the English word for the number:

- 1 Enter a two-digit number: 45
- 2 You entered the number forty-five.