

P8. (difficulty 4*) Dumpy–Dumpo lent from a loan shark at interest $r\%$ a week. A load shark would take everything from him if his debt got over M baht. Write a program to show Dumpy–Dumpo how fast his debt grows without any payment: ask a user to input a loan amount L , interest rate r , and maximum debt M , show the debt every week until the load shark will take everything.

Use the P8 template. (P8_template.py. The template is only to ensure the exact display format and allows smooth auto–grading.)

Example:

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Loan (baht):50000

Interest (% a week):9.5

Max debt (baht):100000

Month 1 debt = 54,750.00

Month 2 debt = 59,951.25

Month 3 debt = 65,646.62

Month 4 debt = 71,883.05

Month 5 debt = 78,711.94

Month 6 debt = 86,189.57

Month 7 debt = 94,377.58

Month 8 debt = 103,343.45

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Hint: this is what *while* is for

Here is P8_template.py

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"""
Dumpy-Dumpo lent from a loan shark at interest r% a week.
A load shark would take everything from him if his debt reached M baht.
Write a program to show Dumpy-Dumpo how fast his debt grows
without any payment: ask a user to input a loan amount L,
interest rate r, and maximum debt M,
show the debt every week until the load shark to take everything.
"""

if __name__ == '__main__':

    # Write your code here

    month = 1
    debt = 10000

    # You can use this print statement for autograding
    print('Month', month, 'debt = {:, .2f}'.format(debt))
```