Os Kodeklubb

Python - 001

■ Task :: Beginner

1. Make a script that prints the following pattern in the
 console:

```
*
* *
* * *
* * *
```

2. Expand the script to create a vertical mirror image of the pattern

3. Expand the script once more to create a horizontal mirror image of the vertical mirror pattern

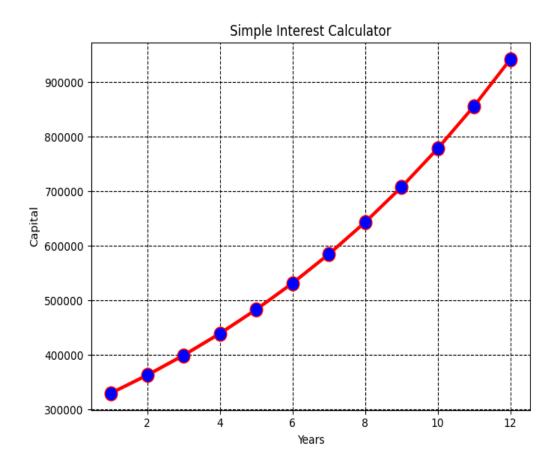


Task :: Intermediate

1. Make a simple script that calculates interest rate of x amount of money over y amount of time with z interest rate with the formula: Simple Interest = ((X * Y * z) / 100)

Include the 3 inputs:

- capital
- years
- interest_rate
- 2. Expand the script to get the intrest year by year *import* matplotlib.pyplot as plt and draw a graph displaying the capital on the x-axis and the years on the y-axis. The graph could look something like this:



3. Style your graph to make it look cool 🤒

■ Task :: Advanced

- Implement and expand the simple_interest solution from Intermediate Task 1 to calculate the interest year by year and save it as a CSV file in a directory in your workspace.
- 2. Loop through all the CSV files the folder and plot them all to the same graph with different colors made using mathplotlib.
- 3. Now for each time you run the script a new CSV file will be appended to the folder and the graph will go through each file and render them as different lines with different colors on the same graph.
- Good luck *