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CIS 5

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## Pseudocode for Calculating the amount of interest earned after one year.

- Declare a floating point variable named *principal* to store the user entered principal value in dollars.
- 2. Declare a floating point variable named *rate* to store the user entered interest rate value in percentage.
- 3. Declare a floating point variable named *times\_compounded* to store the user entered number of times the interest is compounded for a year.
- 4. Declare a floating point variable named *interest* to store the calculated users total interest earned in dollars.
- 5. Declare a floating point variable named *amount* to store the calculated users total amount in savings.
- 6. Display instructions to the screen telling the user how to enter percentages when prompted.
- 7. Display instructions to the screen telling the user how to enter dollar amount when prompted.
- 8. Ask the user to enter their Principal value in dollars.
- 9. Read in the user entered Principal value and store in the variable *principal*.
- 10. Ask the user to enter their interest rate value in percentage.
- 11. Read in the user entered interest rate value and store in the variable *rate*.
- 12. Ask the user to enter the amount of times the interest is compounded.

- 13. Read in the user entered amount of times the interest is compounded value and store in the variable *times\_compounded*.
- 14. amount = (principal) \* pow(1 + (rate/times\_compounded)),( times\_compounded))
- 15. interest = amount principal
- 16. rate = rate \* 100
- 17. Output the users interest rate in percentage to the terminal.
- 18. Output the amount of times the users interest is compounded to the terminal.
- 19. Output the users principal value to the terminal.
- 20. Output the users calculated total interest earned to the terminal.
- 21. Output the users calculated total amount in savings to the terminal.