

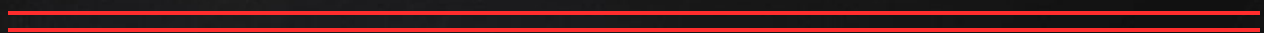


Write a program that reads in the radius and length of a cylinder and computes the area and volume using the following formulas:

$$\text{area} = \pi r^2$$

$$\text{volume} = \text{area} * \text{length}$$

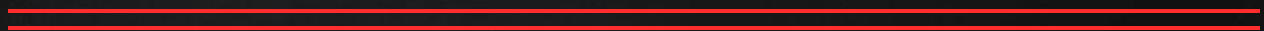
semicolon





Write a program that reads a number in feet,
converts it to meters, and displays the result.
One foot is 0.305 meters

semicolon





Write a program that converts pounds into kilograms. The program prompts the user to enter a value in pounds, converts it to kilograms, and displays the result. One pound is 0.454 kilograms

semicolon





Write a program that reads the subtotal and the gratuity rate and computes the gratuity and total. For example, if the user enters 10 for the subtotal and 15% for the gratuity rate, the program displays 1.5 as the gratuity and 11.5 as the total.

semicolon



Write a program that reads an integer between 0 and 1000 and adds all the digits in the integer. For example, if an integer is 932, the sum of all its digits is 14.

Hint: Use the % operator to extract digits, and use the // operator to remove the extracted digit

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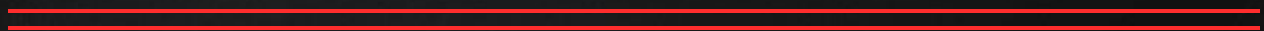


Write a program that prompts the user to enter the minutes (e.g., 1 billion), and displays the number of years and days for the minutes. For simplicity, assume a year has 365 days.

sample input: 1000000000

sample output: 1902 years and 214 days

semicolon

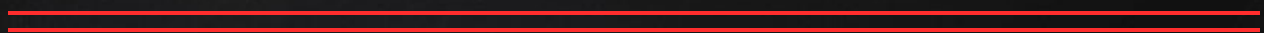




Suppose you want to deposit a certain amount of money into a savings account with a fixed annual interest rate. What amount do you need to deposit in order to have \$5,000 in the account after three years? The initial deposit amount can be obtained using the formula below:

$$\text{initial_deposit_amount} = \frac{\text{final_account_value}}{(1 + \text{monthly_interest_rate})^{**} \text{number_of_month}}$$

semicolon

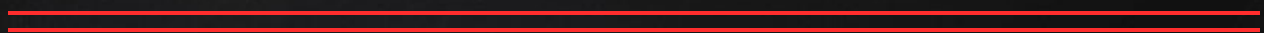




Write a program that displays the following table:

a	b	$a^{**}b$
1	2	1
2	3	8
3	4	81
4	5	1024
5	6	15625

semicolon





Write a program that reads the following information and prints a payroll statement: Employee's name (e.g., Smith) Number of hours worked in a week (e.g., 10) Hourly pay rate (e.g., 9.75) Federal tax withholding rate (e.g., 20%) State tax withholding rate (e.g., 9%)

sample input:

Enter employee's name: mr stanley

Enter number of hours worked in a week: 10

Enter hourly pay rate: 9.75

Enter federal tax withholding rate: 0.20

Enter state tax withholding rate: 0.09

sample output:

mr stanley

Hours Worked: 10.0

Pay Rate: \$9.75

Gross Pay: \$97.5

Deductions:

Federal Withholding (20.0%): \$19.5

State Withholding (9.0%): \$8.77

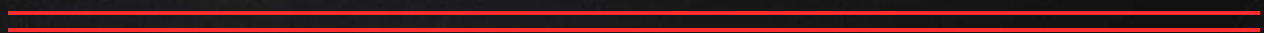
Total Deduction: \$28.27

Net Pay: \$69.22



Write a program that prompts the user to enter three integers and displays them in increasing order.

semicolon





Write a program that prompts the user to enter an integer and checks whether the number is divisible by both 5 and 6, divisible by 5 or 6, or just one of them (but not both).

sample input: 10

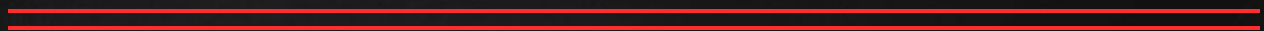
sample output:

Is 10 divisible by 5 and 6? False

Is 10 divisible by 5 or 6? True

Is 10 divisible by 5 or 6, but not both? True

semicolon





Write a program that generate a three-digit lottery number. The program prompts the user to enter a three-digit number and determines whether the user wins according to the following rules:

1. If the user input matches the lottery number in the exact order, the award is \$10,000.
2. If all the digits in the user input match all the digits in the lottery number, the award is \$3,000.
3. If one digit in the user input matches a digit in the lottery number, the award is \$0.

semicolon



Write a program that prompts the user to enter the currency exchange rate between U.S. dollars and Nigerian Naira. Prompt the user to enter 0 to convert from U.S. dollars to Nigerian Naira and 1 for vice versa.

Prompt the user to enter the amount in U.S. dollars or Nigerian Naira to convert it to Nigerian Naira or U.S. dollars, respectively.

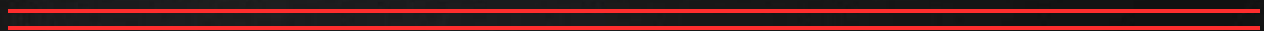
Exchange rate between U.S. dollars and Nigerian Naira is 1USD == #1500

semicolon



Convert all the tasks to function
except 9, 11, 12

semicolon





Write pseudocode for all task

semicolon

