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| **Assignment 7:** | https://scontent.fkul4-2.fna.fbcdn.net/v/t1.6435-1/p720x720/30741031_159171978097741_2844283967983583232_n.png?_nc_cat=104&ccb=1-5&_nc_sid=dbb9e7&_nc_ohc=_tp7953QqmoAX9x32qy&_nc_ht=scontent.fkul4-2.fna&oh=8bb86fdf29b7d1d7700705d0fe399433&oe=615D0882 |

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**D15P1. F2C Conversion**

Write a program that takes as input Fahrenheit temperature. It converts the input temperature to Celsius and prints out the converted temperature as shown in the example. The formula for conversion between the two is: C=5/9(F−32), Where C is the temperature in Celsius and F is the temperature in Fahrenheit.

**NOTE:**

1. DO NOT use any prompts in the input().
2. Use **the round()** function to round your answer to up to two decimal places. That is, use **round(VALUE, 2)**.

EXAMPLES:

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| --- | --- |
| INPUT:  212  OUTPUT:  Fahrenheit temperature 212.0 is the same as 100.0 degrees Celsius. | INPUT:  0.555  OUTPUT:  Fahrenheit temperature 0.555 is the same as -17.47 degrees Celsius. |

*Answer:*

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**D15P2. Final Velocity**

Write a program that takes as input three numbers, u, a, and t. Here u stands for the initial velocity, a stands for the acceleration, and t stands for the time duration. The program prints the final velocity (v).

The input will consist of three lines. The first line will contain the initial velocity u, the second line will contain acceleration a and the third line will contain time t. Recall that u and a can take any real (float) values as velocity and acceleration are continuous vector quantities (in physics). Time t can take non-negative real values only, i.e., 0 ≤ t.

**NOTE:**

1. DO NOT use any prompts in the input().
2. The formula for computing the final velocity: v=u+at
3. Use the **round()** function to round a VALUE to up to two decimal places:  **round(VALUE, 2)**

EXAMPLE:

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| --- |
| INPUT:  20.0  15  2   OUTPUT:  The final velocity is 50.0. |

*Answer:*

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**D15P3. Displacement Covered**

Write a program that takes as input three numbers, u, a, and t. Here u stands for the initial velocity, a stands for the acceleration, and t stands for the time duration. The program prints the displacement covered (d) in time t.

The input will consist of three lines. The first line will contain the initial velocity u, the second line will contain acceleration a and the third line will contain the time t. Recall that u and a can take any real value as velocity and acceleration are continuous vectors (in physics). Time t can take non-negative real values only, i.e., 0 ≤ t.

**NOTE:**

1. DO NOT use any prompts in the input().
2. The formula for computing the displacement:  d=ut+1/2at2
3. Use the **round()** function to round a VALUE to up to two decimal places:  **round(VALUE, 2)**.

EXAMPLE:

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| --- |
| INPUT:  20  15  2  OUTPUT:  The displacement is 70.0. |

*Answer:*

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**D15P4**. **Number of Days**

Write a program that takes as input an Integer s, the number of seconds elapsed for a certain event. The program converts s to hours (hh), minutes (mm), and seconds (ss) and prints the output as hh:mm:ss.

- Convert seconds in hour, minute and seconds

EXAMPLES:

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| --- | --- | --- |
| INPUT: 5  OUTPUT: 0:0:5 | INPUT: 67  OUTPUT: 0:1:7 | INPUT: 3692    OUTPUT: 1:1:32 |

**Note** that the input will only be positive integer values since time cannot be negative.

*Answer:*

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**D15P5. Leap Year**

Write a program to check if the given year is a leap year or not.

The program should read an integer (**year**) from a user. Display the Boolean value: **True**if the year is a leap year, **False**if not.

**EXAMPLES**

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| --- | --- |
| Input: 2024  Output: True | Input: 2025  Output: False |

*Answer:*

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**D15P6. Reverse the number**

Write a program to find reverse of the number.

The program should read an integer (**number**) from a user. The program should print the reverse of the given input.

**EXAMPLES**

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| --- |
| Input: 534  Output: 435 |

*Answer:*

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| --- |
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**D15P7. Display Multiplication table**

Write a program to Display the multiplication table.

The program should read an integer (**Multiplier and Range**) from a user. The program should print the multiplication table for following format.

**EXAMPLES**

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| --- |
| Input: 4 10  Output  1\*4=4  2\*4=8  3\*4=12  …  10\*4=40 |

*Answer:*

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| --- |
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**D15P8. Prime number Checking**

Write a program to check whether given number is prime or not.

The program should read an integer (**number**) from a user. The program should print the number is prime or not.

**EXAMPLES**

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| --- | --- |
| Input: 15  Output  15 is not a prime number | Input: 19  Output  19 is prime number |

*Answer:*

|  |
| --- |
| *Prime Number*    *Not Prime Number* |

\*\*\*\*\*\*\* ALL THE BEST \*\*\*\*\*\*\*