

Homework 1

Due: February 2, 2024

Instructions

Please write your code on `solid.memgalsim.space`, and store your results in the `PHYS4420` directory in your home directory. Make a new directory in there, called `HW1`, and store each question as a separate `question_NUM.cpp` file.

Questions

1. Write a program that prints your name to the screen.
2. Write a program that subtracts 15 from 87 and displays the result, with an appropriate message.
3. Write a program that asks the user to enter his or her age. The program then should display the age in months:

```
Enter your age: 29
Your age in months is 384.
```

4. Write a program that has `main()` call a user-defined function that takes a Celsius temperature value as an argument and then returns the equivalent Fahrenheit value. The program should request the Celsius value as input from the user and display the result, as shown in the following code:

```
Please enter a Celsius value: 20
20 degrees Celsius is 68 degrees Fahrenheit.
```

5. Identify the syntax errors (bugs) in the following program, and then write and run a corrected version to ensure you've caught them all.

```
#include <iostream>

int main()
{
    INT sum;
    /* Compute result of sum
    sum = 25 + 37 - 19
    */ Display Results //
    cout << sum << end;
    return 0;
}
```