Python Fundamentals 1 - Week 2 Tasks

Task 1: Year 5 (5 minutes)

Task: Welcome to Aiseesee Public School, where there are 4 classes in year 5: 5C, 5E, 5G and 5S. This program is supposed to add up the total number of students in the year, however, it... doesn't quite seem to do so! Can you fix up the program?

Requirements: Your program MUST use the f-string method! Failure to do so will result in a 0 for this exercise!

Output: The number of students there are in year 5.

To test your program: Type the following into the terminal:

```
cd week2
python year5.py
```

Sample output

```
PS C:\Users\Oscar\Documents\Git\Github Test 1\icc_pyf1\week2> python year5.py
There are a total of [total] students in Year 5.
PS C:\Users\Oscar\Documents\Git\Github Test 1\icc_pyf1\week2>
```

Replace items in square brackets.

Double Check: To test if your program matches up with the answer, type the following into the terminal:

```
cd week2
./year5.exe
```

Task 2: Road Trip (5 minutes)

Task: You are about to go on a road trip to Melbourne! You know that it will take 8 hours to get there, and you also know that the road that you will be taking, the Hume Highway (M31), has a speed limit of 110km/h. However, you don't know how long it will take. Your job is to calculate how long the journey will be!

Requirements: Your program must make use of the variables given! If those variables are not used, you will receive a 0 for this exercise!

Output: The program will tell you the distance of the journey in a full sentence.

To test your program: type the following into the terminal:

cd week2
python road_trip.py

Sample output

```
PS C:\Users\Oscar\Documents\Git\Github Test 1\icc_pyf1\week2> python road_trip.py
Your journey will be [enter distance here] long.
PS C:\Users\Oscar\Documents\Git\Github Test 1\icc_pyf1\week2>
```

Replace items in square brackets.

To test if your program matches up with the answer, type the following into the terminal:

cd week2
./road_trip.exe

Task 3: Names (10 minutes)

Task: Meet Termie, who is a program that runs on a terminal, and he is always happy to meet new friends! Your task is to program Termie so that he introduces himself, asks for your name, and then gives you a greeting with your name!

Requirements: Your program MUST use the f-string method! Failure to do so will result in a 0 for this exercise!

Input: You will provide a name when prompted by the program (Termie).

Output: The program (Termie) will print out a greeting for you.

To test your program: type the following into the terminal:

cd week2
python names.py

Sample output

```
PS C:\Users\Oscar\Documents\Git\Github Test 1\icc_pyf1\week2> python names.py
Hello, my name is Termie! And you are? John
Hello John! Nice to meet you!
PS C:\Users\Oscar\Documents\Git\Github Test 1\icc_pyf1\week2>
```

Replace items in square brackets.

To test if your program matches up with the answer, type the following into the terminal:

cd week2
./names.exe

Task 4: Zoo Rhyming Couplets (10 minutes)

Task: You're visiting the zoo and feeling inspired by the fascinating animals you encounter! Let's create a program that asks you for the names of two animals and generates a rhyming couplet about them.

Requirements: Your program MUST NOT use the f-string method! If you do, you will receive a 0 for this exercise!

Input: You will provide the names of two animals when prompted by the program.

Output: The program will print out a rhyming couplet based on the names of the two animals you provided.

To test your program: type the following into the terminal:

cd week2
python zoo_rhyming_couplets.py

Sample output

```
PS C:\Users\Oscar\Documents\Git\Github Test 1\icc_pyf1\week2> python zoo_rhyming_c
ouplets.py
Enter the name of the first animal: lion
Enter the name of the second animal: swan

Here's a rhyming couplet about the lion and the swan:
The lion roars with might and brawn,
While the swan glides gracefully at dawn.
PS C:\Users\Oscar\Documents\Git\Github Test 1\icc_pyf1\week2>
```

Replace items in square brackets.

To test if your program matches up with the answer, type the following into the terminal:

cd week2
./zoo_rhyming_couplets.exe