

In-Class Question 2

Question)

Here is a program.

```
line 1 print("Welcome! Let's make you happy.")
line 2 age = input("Please enter your age: ")
line 3 happy_age = age / 2
line 4 print("Your happy age is:", happy_age)
```

The line number, such as 'line 1' and 'line 2', before each line of code is **not part of the code**.

If you run the above program, it will make you happy by reducing your age by half.

Here is an example.

```
Welcome! Let's make you happy.
Please enter your age: 20
Your happy age is: 10.0
```

Here is another example.

```
Welcome! Let's make you happy.
Please enter your age: 45
Your happy age is: 22.5
```

However, the program does not work as shown above because of a problem in the code.

You can fix the program by **changing one line of code**. You can only change one line of code. You cannot add, change or delete any other lines of code.

In this question, you just need to write down the line number of the line of code that you need to change in order to fix the problem.

For your answer, just **enter an integer**. Don't enter any letters. Don't enter a full stop or a decimal place. Just **enter an integer**.

Correct answer(s):

- 2
- 3

Explanation:

- In line 2, the `input()` command gets some text input from the user, and the text content is then stored in the `age` variable
- In line 3, since the `age` variable contains text content, instead of numeric content, the division does not work (division must work with numbers)
- To fix the problem, you need to change the text content stored in the `age` variable into a number using the `int()` command before it can be used together with the division operation
- For example, you can either do the following in line 2:

```
age = int(input("Please enter your age: "))
```

or do the following in line 3:

```
happy_age = int(age) / 2
```