**Worksheet 3: Pocket Money**

**Scenario**

You are going to ask for just 1p per week pocket money.

Each week the amount will double (2p, 4p, 8p, etc.).

This doesn’t sound like a lot of money (the odds of someone agreeing to pay it are good!)

It might add up to more than you think!

1. Copy the following program outline, then check that it runs without errors:  
     
   pocketMoney = 0.01

totalMoney = 0

for week in range(1,26):

print("\nIt is week ",week)

pocketMoney = pocketMoney\*2

totalMoney = pocketMoney

print("You will get £ ",pocketMoney)

input("\nPress ENTER to exit program")

print (“Your total money is ”,totalMoney)

1. Change the **for()** loop so that it counts the weeks from 1 to 26.  
   Check that it works as expected.
2. Add one line of code **inside** the loop to double the amount of pocket money.  
   Hint: pocketMoney = …….  
   Check that it works as expected.
3. Finally, add a line of code at the start to create a variable called **totalMoney**.  
   totalMoney = 0  
     
   Inside the loop, keep a running total of the total pocket money you will have collected so far.  
   Only print this value at the **END** of the program (after exiting the loop).

