```
Script started on 2023-09-14 21:18:55-05:00 [TERM="xterm-256color" TTY="/dev/pts/1" COLUMNS="371" LINES="78"]
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/OLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/OLA[00m$ pwd
[?2004l
/home/jovyan/OLA
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/OLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/OLA[00m$ ls -l
[?2004l
total 4
-rw-r--r-- 1 jovyan users    0 Sep 14 21:18 Ch2_OLA.log
-rw-r--r-- 1 jovyan users 1098 Sep 14 21:13 OLA1.py
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/OLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/OLA[00m$ catr[K -n OLA1.py
[?2004l
     1  #Tyler Sabin
     2  #CSCI 1170-006
     3  #OLA-1
     4  #This program will inform the user of the ending dollar amount
     5  #based off of their initial payment, rate, times compounded,
     6  #and length of investment
     7
     8  #def is used to define a function, main
     9  def main():
    10      #Get the input for each of the requested items for the formula
    11      principal = int(input("Enter the starting principal: "))
    12      interestRate = float(input("Enter the annual interest rate: "))
    13      interestCompound = int(input("How many times per year is the interest compunded? "))
    14      investmentLength = int(input("For how many years will the account ear interest? "))
    15
    16      #Convert the the integer input into a decimal form to accurately represent the rate
    17      apr = (interestRate / 100)
    18
    19      #Use the given formula to calculate the ending amount for the user
    20      endingAmount = (principal) * ((1 + (apr / interestCompound)) ** (interestCompound * investmentLength))
    21
    22      #Output the requested information for the user to show for the ending amount
    23      print(f'At the end of 10 years, you will have $ {endingAmount:,.2f}')
    24
    25  #call the main function
    26  main()[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/OLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/OLA[00m$ python3.10
OLA1.py
[?2004l
Enter the starting principal: 5000
Enter the annual interest rate: 3
How many times per year is the interest compunded? 4
For how many years will the account ear interest? 10
At the end of 10 years, you will have $ 6,741.74
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/OLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/OLA[00m$ exit
[?2004l
exit

Script done on 2023-09-14 21:19:41-05:00 [COMMAND_EXIT_CODE="0"]
```