SLIDEDECK SCREENSHOTS:

```python
src > help.py
1  # This is a Help Document that explains to the user what the investment program does:
2  print("----------------------------------------------------------------------")
3  print("Welcome to The Long-Term Investment Calculator")
4  print("----------------------------------------------------------------------")
5  print("Here is a quick overview of the program:")
6  print("----------------------------------------------------------------------")
7  print("1. The Investment Calculator Gathers Information from the Investor")
8  print("----------------------------------------------------------------------")
9  print("2. Using the data the calculator calculates based on your investment information provided")
10 print("-------------------------------------------------------------------------------------------")
11 print("what the Potential Future Value of your Investment could be in the future.")
12 print("-------------------------------------------------------------------------------------------------------------------------------------------------------------------------")
13 print("3. In Addition, the Calculator also uses this information and the history of the global markets to calculate alternative Future Values of your Investment")
14 print("-------------------------------------------------------------------------------------------------------------------------------------------------------------------------")
15 print("based on the number of years you invest for your potential return")
16 print("-------------------------------------------------------------------------------------------------------------------------------------------------------------------------")
```

```python
src > main.py > ...
1  import help
2
3  #Investment Calculator for Individuals Making Inital and Monthly Contributions:
4  # CollectUsersName/Deposit/RegularAmounts/Time/Frequency/TotalYears/ExpectedReturn
5
6  begin = True
7  completion = False
8  InvestorName = input("Welcome to the Long-Term Investment Calculator, please enter your name: ")
9  while begin:
10     if completion == False:
11         Start = input(f"Hello {InvestorName}, would you like to calculate your investment potential? (y/n): ")
12     elif completion == True:
13         Start = input(f"Hello {InvestorName}, would you like to calculate other investment potential using different numbers? (y/n): ")
14
15     if Start == "y":
16
17         inital_deposit = input(f"{InvestorName}, please enter your inital deposit as a whole number such as 10000: ")
18         regular_deposit = input(f"{InvestorName}, please enter your regular deposit as a whole number such as 100: ")
19         deposit_frequency = input(f"{InvestorName}, please enter how many times you wish to deposit: for example, 4 = 4 times per month: ")
20         compound_frequency = print(f"{InvestorName}, your investment will compound monthly.")
21         num_of_years = input(f"{InvestorName}, please enter the desired amount of years you'd like to invest for: ")
22         annual_return = input(f"{InvestorName}, please enter the desired return per year you expect; for example, 5 8 or 11: ")
23         setyears = [30, 50, 70]
24
25         # print(inital_deposit * 1 + (annual_return/compound_frequency) ** num_of_years)
26
27         # Convert InputStrings into Integers
28
29         inital_deposit = int(inital_deposit)
30         regular_deposit = int(regular_deposit)
31         deposit_frequency = int(deposit_frequency)
32         compound_frequency = int(12)
33         num_of_years = int(num_of_years)
34         annual_return = (int(annual_return))/100
35
36         # Calculating the Compound Interest Earned over the Investment Period
37
38         preliminary = (1+(annual_return/compound_frequency))
39         powernumber = (compound_frequency * num_of_years)
40
41         BeforeFutureValue = inital_deposit * (preliminary ** powernumber)
42
```

```python
43         # print(f"Here: {BeforeFutureValue}") # Debugging Tool
44
45         # Calculating the Future Value of The Investment
46
47         step1 = (1+(annual_return/compound_frequency))
48         powernumber2 = (compound_frequency * num_of_years)
49         annualreturndivided = annual_return/compound_frequency
50
51         half = (((step1**powernumber2)-1)/annualreturndivided)
52         futureanddeposits = regular_deposit * half
53         # print(futureanddeposits) # Debugging Tool
54
55         totalinvestmentovertime = BeforeFutureValue + futureanddeposits
56         print("-----------------------------------------------------------------------------------------------------------------------------------------------------------------")
57         print(f"{InvestorName}, This is the potential return on your investment based on your inital deposit and monthly contributions: {totalinvestmentovertime}")
58         print("-----------------------------------------------------------------------------------------------------------------------------------------------------------------")
59
60         # Investment Information + Set Number of Years & Rates
61
62         for years in setyears:
63             step1 = (1+(annual_return/compound_frequency))
64             powernumber2 = (compound_frequency * years)
65             annualreturndivided = annual_return/compound_frequency
66
67             half = (((step1**powernumber2)-1)/annualreturndivided)
68             futureanddeposits = regular_deposit * half
69             # print(futureanddeposits) # Debugging Tool
70
71             totalinvestmentover = BeforeFutureValue + futureanddeposits
72             print(f"Investment after {years} years: {totalinvestmentover} \n")
73
74         # Debugged Information
75
76         completion = True
77
78     else:
79         print("You can try again anytime.")
80         begin = False
```