Digital Assignment-Financial Analytics
Winter 2024-25

1. Design a portfolio for a person aged 40 with an initial corpus of 10000000. He has the following goals: at the age of 42 he needs 2000000 and he needs 50,00000 at the age of 48. Also, he has a monthly SIP of 20,000. calculate the retirement corpus at the age of 60 by assuming the debt interest rate of 6% per annum and equity interest rate of 14% per annum. Provide the solution using MS excel sheet. Also generate a python code for the same.

2. Design a portfolio for a person aged 40 with an initial corpus of 10000000. He has the following goals: at the age of 42 he needs 2000000 and he needs 50,00000 at the age of 48. The portfolio needs to be created by using investments in Future and index fund. Calculate the retirement corpus at the age of 60 by assuming the index fund interest rate of 14% per annum and the bet on strike price of the Future is 2% per month. Also , it is assumed that the wining bet is 9 times in a year for Future. Provide the solution using MS excel sheet. Also generate a python code for the same.