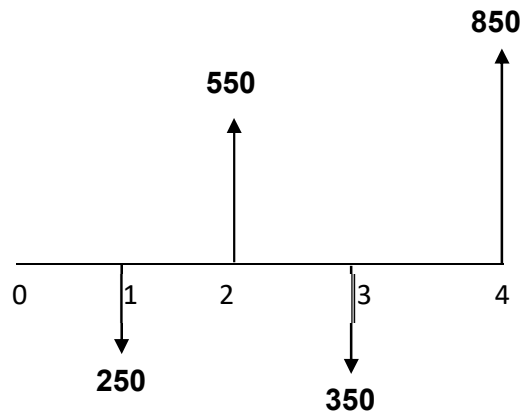


Consider a project with initial cost of 1000MT and the following 4-year cash flow that appears 4 times in this project. Interest rate is 7% for the first 4-year, 8% for the second 4-year, 9% for the third 4-year, and 10% for the fourth 4-year.



- a. Calculate future value of this project at the end of year 16.
- b. Calculate future value of this project at the end of year 16 with annual, semiannual, quarterly, monthly, weekly, daily, and half-daily compounding (i.e., $m=1, 2, 4, 14, 52, 365$, and 730).
- c. Calculate future value of this project at the end of year 16 with continuous compounding.
- d. Provide a chart showing effect of varying compounding frequency (m) on future value of this project at the end of year 16. There is a similar chart in slide 17, chapter 4 of our course.
- e. Assume that the time periods are in month in the above cash flow, repeat parts a, b, c, and d at the end of month 16. Interest rates are annually. For parts b and d, consider the two policies of 1) no interperiod interest, and 2) interperiod interest.

Please use Microsoft Excel for doing this assignment, and everybody must submit **his/her own solution** as a single Excel file with multiple worksheets **no later than Aban 16, 1398 only through LMS.**

Sending the assignment to my email is not acceptable.

Good luck
Esfahanipour
Aban 4, 1398