

Lab # 6

October 27, 2016

Task 1: Write a C program which adds the even integers from 2 to 500, and then prints the sum on the screen. Note, the program should perform the whole computation itself, without any user input. **(4 marks)**

Task 2: A person invests rupees 1000.00 in a savings account with 5% annual profit (i.e., interest rate). Assuming that all the interest is calculated on the deposit in the account, calculate and print the total amount of money in the account at the end of each year for 10 years. Use the following formula for determining these amounts: **(6 marks)**

$$a = p(1 + r)^n$$

Where,

p is the original amount invested (i.e., the principal)

r is the annual interest rate

n is the number of years

a is the amount on deposit at the end of the n th year.

The program should display the information like this:

Year	Amount on deposit
1	1050.00
2	1102.50
3	1157.63
4	1215.51
5	1276.28
6	1340.10
7	1407.10
8	1477.46
9	1551.33
10	1628.89

Grading and LMS Submission

- Make sure that the lab engineer has graded your programs until 5 pm.
- You've uploaded the C source files in Zip format over LMS until 5:30 pm.