

Lab Assignment 1

1. Write functions that calculate the sum of the last 6 digits of your student ID.

EX: 611234 $\rightarrow$ 17

(a) Use an integer input. (b) Use a vector input.

NOTE:

1. Using “sum” function is not allowed.

2. “modulo” function might be helpful for (a).

2. Write a function to calculate the Taylor’s series (about 0) of the following functions:

(a) $\cos x$ (b) $\sin x$ (c) $\ln(1+x)$ (d) $(1+x)^{-1/2}$