**Assignment 2AP**

**Problem 1**

%Hung Vu

%1152030

%HW2

clear all; clc

prompt = 'Enter the value of n: ';

n = input(prompt)

syms k x

Total = symsum(1/k, k, 1, n)

digits(5);

Total1=vpa(Total) %series is divergent

**Input**

100

**Output**

Enter the value of n: 100

n =

100

Total =

14466636279520351160221518043104131447711/2788815009188499086581352357412492142272

Total1 =

5.1874