Computer Programming Lab (CS104L)
Lab1

Q1. Take two numbers as user input and print the maximum number.

Q2. Take any number as user input and print whether it is an even number or odd.

Q3. Read names of two students and print them in alphabetical order.

Q4. Write a python program to calculate the time required for a car to traverse 5 km starting from rest with acceleration 30 m/s^2. Print the output with proper units.

Q5. You have three ropes each being 10m long. You use the ropes to make a circle, a regular hexagon and an equilateral triangle. Determine the area of each of these figures.

Q6. The perimeter of a circle, square and an equilateral triangle is the same and is taken from the keyboard. Calculate the area of these three.

Q7. A 30 kg boulder was initially moving at a velocity of 10 m/s, in order to stop it 10 N of constant retarding force is applied on it. After how long will the boulder stop?

Given,

m = 30 kg.
Retarding force = -10N
u = 10 m/s
v = 0

We know,

F = ma
-10 = 30 x a
a = -1/3 ms^{-2}

Also,

v = u + at
0 = 10 – t/3

Therefore,

t = 30 s