# Chapter 10- Additional Exercise

## Question

Write an assembly program that

1. prompts the user to enter a year.
2. calls a subprogram called is\_leap\_year that takes the entered year as a parameter and checks whether it is a leap year or not. The subprogram returns 1 if the year is a leap year and 0 otherwise. The returned value should be stored in eax.

Flow chart of the algorithm:

Is year divisible by 400

Is year divisible by 100

Is year divisible by 4

yes

yes

yes

No

No

leap year

No

leap year

Not leap year

Not leap year