

Date:- 29-05-2020

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Course:- Logic Design

USN:- 4AL16EC101

Topic:- Digital clock design

Sem:- 6<sup>th</sup>

Sec:- 'B'

- \* Behaviour of clocked sequential circuits is determined from its input, outputs and state of ff's.
- \* The Analysis of a clocked sequential ckt consists of obtaining Table of diagram of time sequence of o/p & states.
- \* The clocked sequential ckt have flipflops or gated latches from memory location. Then its periodic clock connected to clock i/p of all memory elements of the ckt to synchronizing all the internal changes of state.
- \* The digital clock, that is usually provided by a crystal which is out of glass.
- \* Because Electric charges passes through a crystal, it will change shape slightly and make a very light sound. The sound which is heard at a regular frequency is the converted into an Electronic signal.
- \* An Analog Watch might be much more accurate than the digital one if it uses a high precision movement to measure passing time.
- \* Generally the most Expensive Watches in the world are Analog ones, with digital displays.
- \* Generating the time in BCD
  - 555 timer is used, counter & decoders are used by their counter produces 0-9 counts.
  - This is converted into 7 segment output using 7447 decoder then to the 7 segment.

Date:- 29 May 20

Course:- Python

Topic:- Object Oriented Programming.

Name:- G. Ravi Teja

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Sem:- 6th sem

Sec:- B section-

- \* one of the popular Approaches for solving the programming problem is creating objects. This is called as oop. (Object oriented programming).
- \* The concept in oop in Python focuses on creating object Reusable code. This concept is also known as 'DRY' (Don't Repeat yourself).

\* In Python, the concept of oop follows some basic Principles.

→ Inheritance → Encapsulation → Polymorphism.

- \* In Python There are some of the Terminologies which is there in oops also, they are classes, objects, Data members, Inheritance, Instantiation.

\* class Attributes are variable of class that shared b/w all its Instances. They differ from instances. They differ from instance attributes.

\* "\_\_init\_\_" is a reserved method in Python classes.

\* - del () this is known as destructor method in Python.

\* Python object have an Attribute called - doc - which provide document of objects.

\* Instance Variable are owned by Instance of the classes. Unlike class variables are defined within methods.

\* The main advantage of oop is that Reduces the number of lines in the code and also makes the code more readable.

\* client - server systems, object-oriented databases, Real time System design etc:-,