X	Laboratory Practice - IV (OOMD) - Experiment Number - 1.
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	O THE THE THE THE PART OF THE
	Jitle:-
	State model
	Broblem Definition:- Draw state model for telephone line, with various activities.
	Prerequisite:- Software Analysis Skills, Abject Arientation and its development, Software Development life Sycle, Types of Model.
	Software and Hardware Requirements:- Visual Caradigm 17.0/Star UML,
	Software and Hardware Requirements:- Visual Caradigm 17.0/Star UML, Windows 7 or above version or Linux, RAM - 4Gb and more, ROM - 128 Gb and more,
	Learning Abjectives:- To learn and draw state model / diggram.

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1	Managinas -
-	I the will understand the concept of state model, and
	(2) We will will learn to draw the state model diagram for any
	system.
	Theory:
	State Diagram-
	A state diagram is used to represent the condition of
	the system or part of the system at finite instances of time Its
1	s behavioral diagram and it represents the servior using finite
1	s behavioral diagram and it represents the servicer using finite
	state transitions.
1	
-	State diagrams are also referred to as state muchines and state-chart
	diagrams. These terms are often used interchangeably. So simply, a state
	diagram is used to model the dynamic lehrwier lost a class
	in response to time and changing external stimuli. We can say
	that each and every class Tusing State diagrams.
	The state of the s
	Uses of Statechart dingram-
	The state of the s
No. of Street, or other Persons and Street, o	not show what processes cruse those events)
	(2) We use it to model the dynamic behavior of the system.
	3 To understand the reaction of objects / classes to internal
1000	or external stimuli.
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Basic Components of a statechart diagram -
(1) Initial State- Use use a black filled circle represent the initial state of a system or a class.
2 Transition - Ue use a solid arrow to represent the transition or change of control from one state to another. The arrow is labelled with the event which causes the change in state.
State 1 State 2
3 State- The use a rounded rectangle to represent a state of a represents the conditions or circumstances of an object of a class at an instant of time.
State State
4) Self transition - We use a solid arrow pointing back to the state itself to represent a self transition. There might be scenarios when the state of the object does not change upon the occurrence of an event.

A.I.S.S.M.S INSTITUTE OF INFORMATION TECHNOLOGY Kennedy Road, Near R.T.O., Pune - 411 001. Steps to draw a state disgram-1. Identify the initial state and the final terminating states. 2. Identify the possible states in which the object can exist (boundary value) corresponding to different attributes guide us in identifying different states). 3. Istel the events which trigger these transitions. The State Disgram for Telephone line -DAs a start of a call, the telephone line is idle. De When the phone receiver is picked from hook, it gives a dial tone and can accept the diality of digits.