

Almplest object - vector

model

C ("Red", "(preen")

print (model)

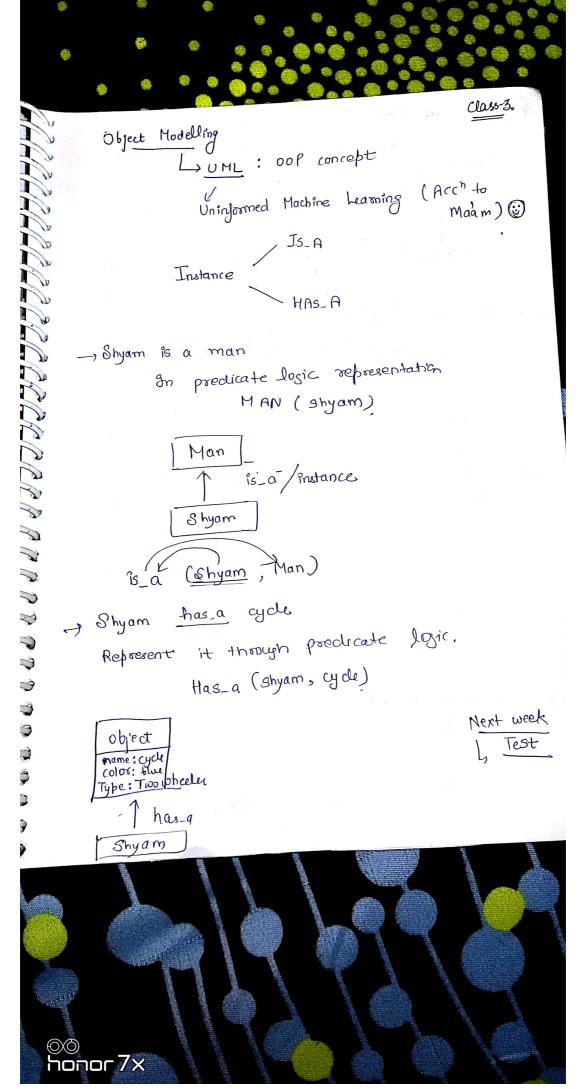
print (class (model))

Character

Character

What is R-soupt?

A What does the 6 class of vector mean?



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This is a paset of aggregation

80181. Dimulation Simulation refers to a broad collection of methods and applications to mimick the behaviouse of real system usually on a computer with appropriate software, Computer Simulation It rejects to the methods for studying a wide varieties of model of real would systems by numerical evaluation using software design to initiate the system operation or characteristic over time, fractically simulation is the process of designing & occating a computacized model ofor a real or proposed system for the purpose of conducting numerical experiment to give us a better Understanding of the behaviour of that system for a given set of conditions. Diff. types of <u>Simulation</u> Simulation Dyramic Static Vs 1 time is No imp role important of time 3 Static - The time doesn't play an important role 3 Dynamic - time plays an important role. 3 0 what is computer simulation? What are the different types of it ? (3 marks) (5)

(Ontinuous V/S Discrete

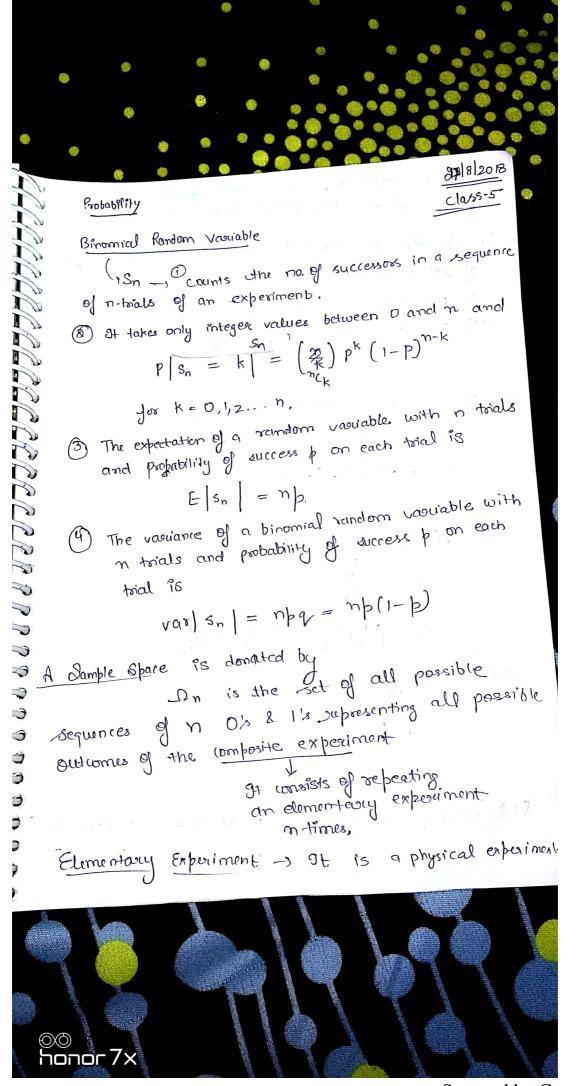
In a Continuous model, the state of the system can be change continuously over time but in discrete model change can occur only at seperated points in time.

If a model shows both continuous and discrete change win the same model, it is called as mixed continuous discrete model.

- 3 Deterministic v/s so sto, chastic
 3 System Models with no random input, and deterministic.
- → Stochastic models operate with adeast some inputs
 being random.

 Arena eastly handles deterministic and stochastic models
 and provides many probability distocibution and
 processes that can be used to supresent in puts

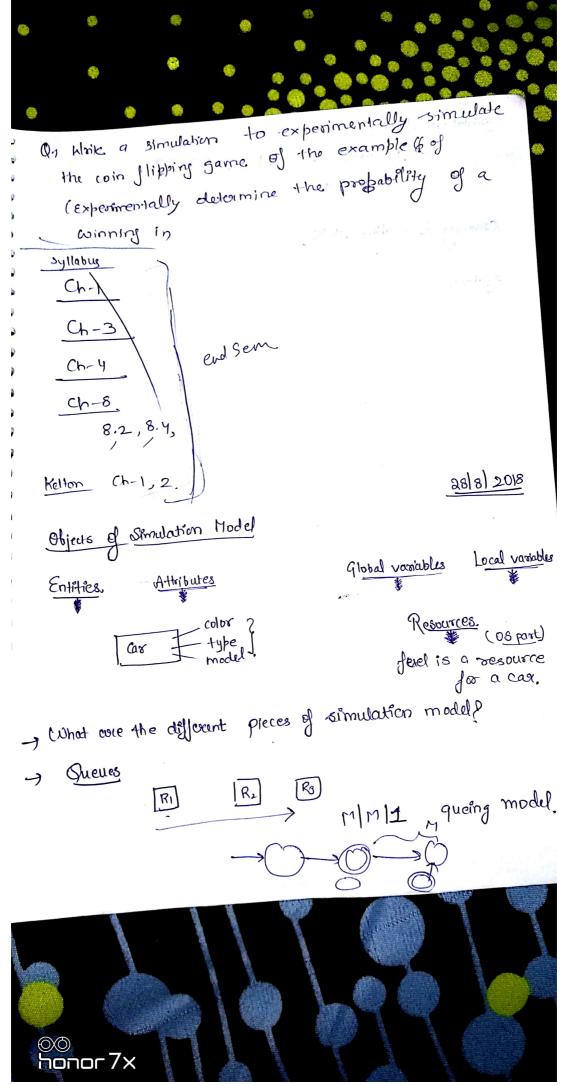
Probability Theorem
Boyes
Poisson's
Binomial



With two outcomes. In elementary experiment is also called as Bernaulli's trials. (1-1) A coin is flipped two times. Find the probability of setting a success when (i) Both heads -> 14
(ii) One Head 2 (Dre Tail, -> 1/2. O) a) A coin is flipped 4 times, (i) Two heads atleast

(ii) One heads (One tail.

Alonost) (i) $P(OH) = \frac{1}{6}$ P(1H) = 4/16 $1-\left(\frac{1}{16}+\frac{4}{16}\right)=\frac{1-5}{16}=\frac{11}{16}$ (ii) Q $P(1T) = \frac{4}{16}$ $P(OT) = \frac{1}{16}$ P = 5 Que Design a problem of getting a success with 9 heads property of the second second



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Simulation Clock Discrete - 0,1 Continuous Starting & Stopping state System.