Spark Euccution Model And Architecture-	(Kaj·Ka).
1) Flow can cap ate spork Programs?	2 hour sersio
1) How can we create spark Programs? 2) How to enecute spark Programs?	
(2) How to enerate spark trograms:	8:00
(1) Interactive client (spark-shell, Motebooks)	learning Phasel
2) Lubmit Job- Spark-Submit.	, , ,
crested wholeprogram -> subwitted to a colo	uster

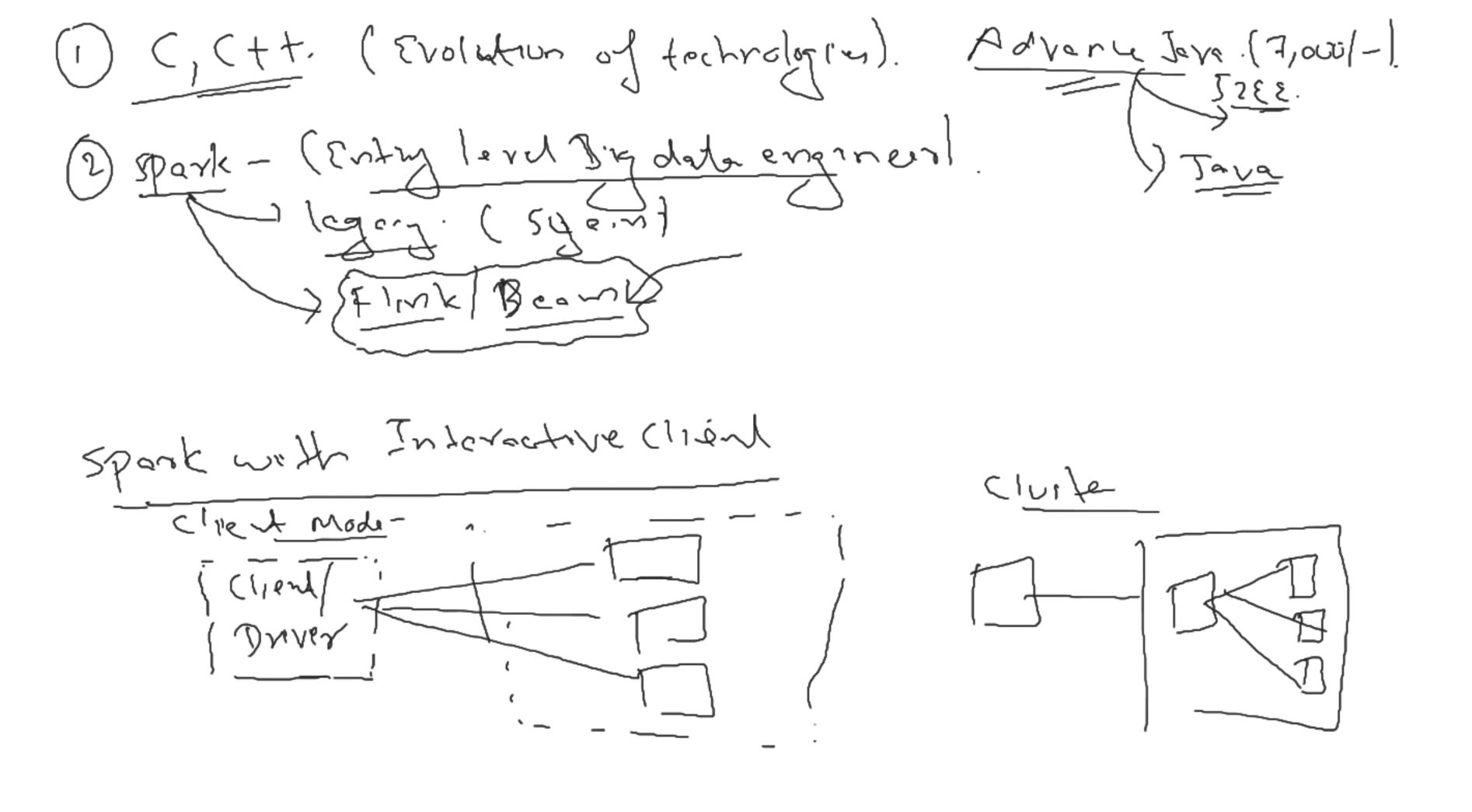
cluster- (Hordoup). (Martiple zystem) (1) Master-slave Architecture-Ring Architecture- ((assandral/Mongoor). System Design

(Master-Slove Archetechure). Orrver Spark cluster Euchton Spark Client A2 500 low.

Odx 9 Eucropes com latory ( olloot ( group By operator. 700 m -> 510~~015. w It aik suple mythen Programs-

Spark Programs- (Legerysoftware). Python- Java > threading [Scale (1) 10 car[n] -> 10 car[2] TE IE 10000 (20] -) (a) mi wic the 9009( )] -1 050 9 wind one enoutor (2) YARN- (EMR clush, ADB, dataproc). Klimk in kabernetes

(orchestration dust
when tools) Sendly chir distribution ) flink (ochvestedion). development-(5) Shord alon-



Encotron Modes Enecution tasks. Clusher Monger IDE, NoteGook. chent 1. local[n] Databrock 5 Not (cos), Sheel. Spank-submit

In memory - RAM. -) (voltaile menoy). Harddrik -) Knifting 5,-1-1 ٤١ ٦. J - 21000 7,0001 Je~~~ 1,00,00/per~ (post - 1 (500) el de dadamit-\_000/ Storge level SP=~1<7

(1) Roych Journ Jila, Chistorial (= teb Sperk supposks. 1) Batch 10 ads - 10,000 Neer real time streaming (micro but charge)

Resilient Distributed 1) Immut c66 - change the contents of an RDD Column rake faut tolerant and resulted

- snortonnotrons ing ut RDD - output RDD input RDD -> von-KDD. (1) wide . - > shuffling. (2) namow - noshuffling until and untell an action is applied, transformation,

won't be eneanted. (spark: 1/2) perkil laggerdneted.