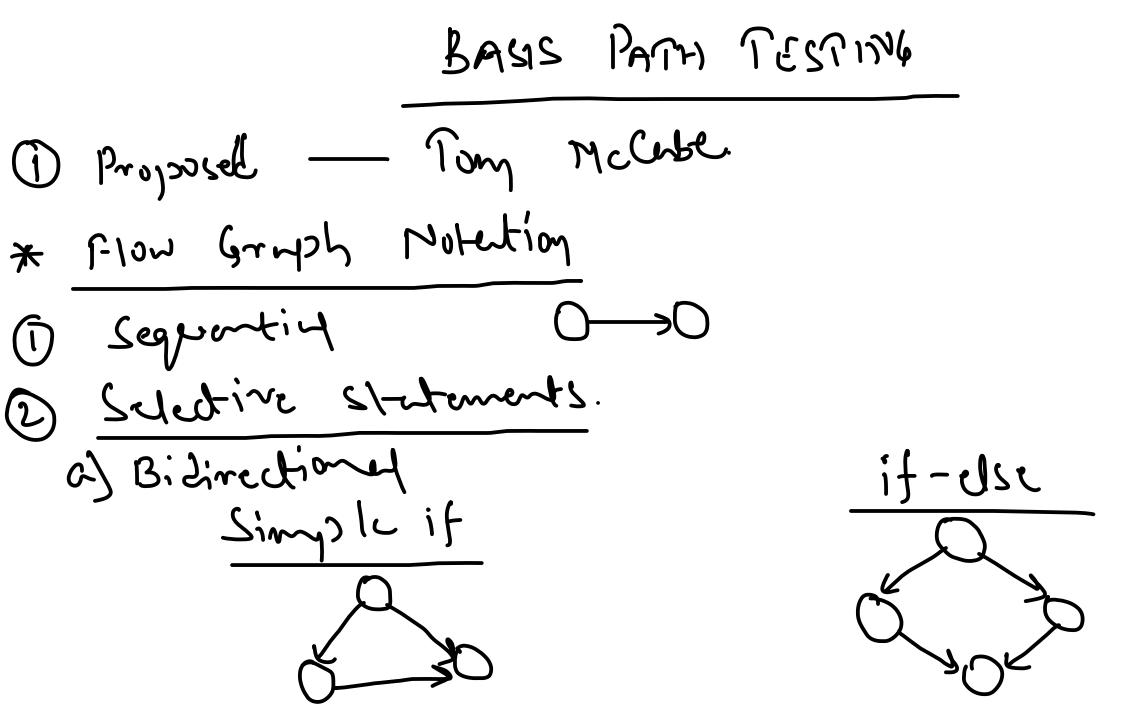
## SOFTWARE TESTING

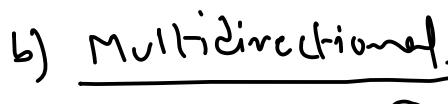
1) White Box Testing - internal specification/
logic driven approach.

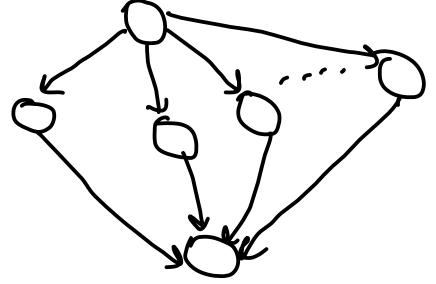
Distant Box Testing - external specification/
(BBT)

1/0 driven approach 2) Black Bop Tuling (BBT)

Structure







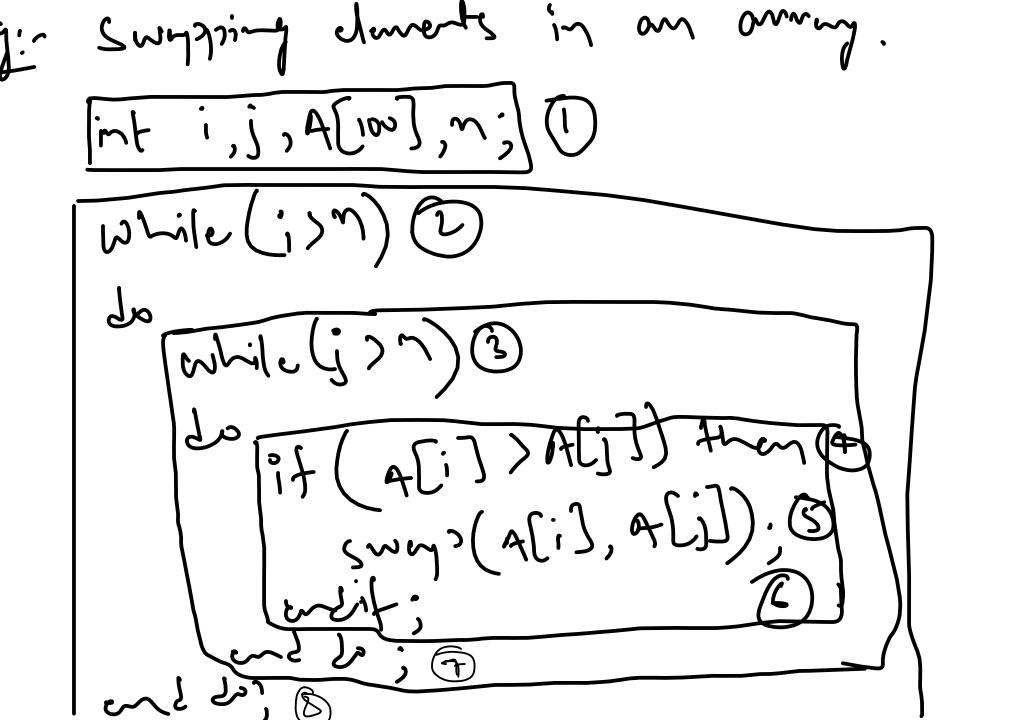
3) Resolitive statements.

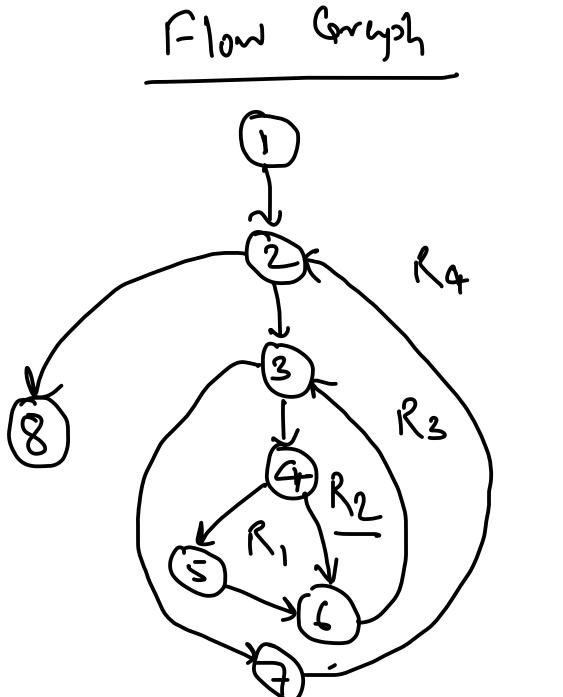
2) entry control

م ماناد

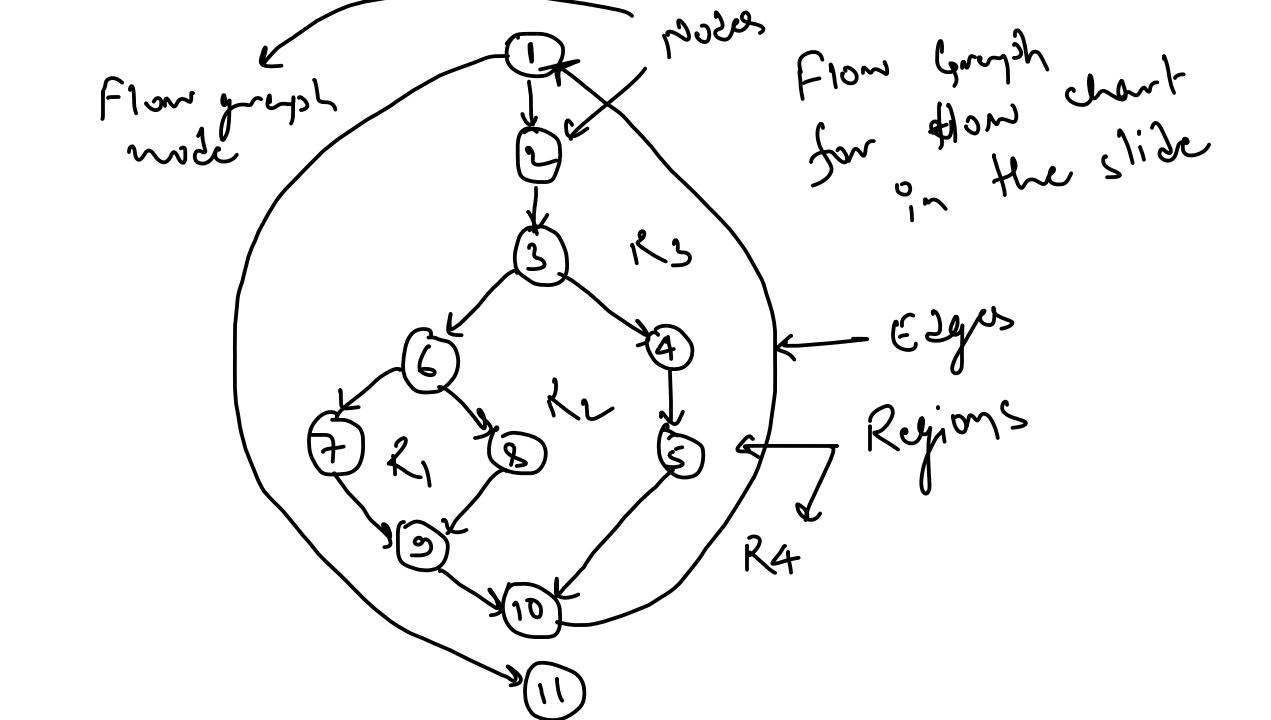
contra tias

de 30-30 until 4000





(i) Flow graysh ueing wolations 2) Finding Regions



\* flow Granish Approach. 1) Construct a program for given problem Evelue Gumatic Complexity. 3 Bertify independent-juths. Fregrane tut cases bused on the number of independent-puths.

\* CYCLOMATIC COMPLEDITY - S/m myric Diprovider quantitative mensure of logich E) It provider the no. of indyondant puthe. \* Indepondent Partus. Myen elge is Path 1: 1-11 mbrodued 12cth 2: 1-2-3-4-5-10-1-1)

Puth 3: 1-2-3-6-8-9-10-1-11

1244a: 1-2-3-(-7-5-10-1-1)

introduced

(2) conetitute 5 mis

set of flow grain

Puth: 1-2-3-4-5-10-1-2-3-6=8-9-10-1-17 not independent Cyclomatic Compolexity. D Number of regions in the flow graph

D V = E-N+2 (E-Edge, N-Noda) 3 v 2 P+1 (p-No. of predicated in flow gruph) where, ~ Cyclometic comp levily.

Flow graph CC

(i) V = 4

2) N=11, E=13 V=13-11+2=4

B P = 3 V = 3+ 1 = 4 \* program to find whether  $\Delta^{1c}$  is Scalene, isoscalar, quilaboral on not a triangle.

Void cheek(int a, int 5, int c) ۵25, 456, 026. esse a!=5, b!c, c!=a Cont 7 2 else a 2511 b2011 caa else and contract of the contr

(, x cm 1) V = 6= noted wo. of 1) V = 6= noted = 17-13+2=6 25+126 10

\* Independent Paths. (...) — thuse modes can be included in the path Puth 1: 1-2-10-11-73 Path 2: 1-2-10-12-13. Path 3: 1-2-3-10-11-13 Puth 4:1-2-3-4-5-8-5-2-... Pethy 5:1-2-3-4-5-6-8-5-2 .... Path (: 1-2-3-4-5-6-7-8-5-2---

## GRAPIA MATRICES. Beizer. - Leta Structure for flow graph (1) A syrune metnige. 2) Size of metring = No. of modes in the How Brows & columns > melus. 4 Entries in matrix > connections (edges)

a 3

Possible options for link weights. Probability that a link is executed.

Processing time for transcol of link (3) Memory required for traversed. 4) Reconces are regimed for traversed. Es Connections/100 connections.

Connection 3+1=4 Complerity meliuse node 1) If two on nure 2) If no entries -> Sink mode

RELIABILITY No. of mobiles. Believility of a mobile = 0.999. Modiles are jout in series. Reliability of (0.999)
while slw = 0.9048

Reliability of a mobile = 0.855 No.9 mobiles = 50 Rdiability of whole system = 0.355

Build, Robert, Version. Vension Keleuse Build theluna mems which is ready to - Version is extension Pt is an of build. executable file. It is hunded f21- is handed overf11- is the number over to the tutor to client customer of reluse make to tal- the after Completion of development & according to the developed jourt et the project. testing phases. of the client.

Vursion Brild Koluse It refers to thet It is slw which tit is varietion Slw part which is no longer in of an earlier on Slow part which is no longer in still in turing or not tost-cht jet testing. original type of slav. réchet by test have several trans if défet builds aresisted tome Keleuse com + It is bused on build but mut 18 found. vice-versa. y with it. +App > itself. ) Part of ayyou + App itself of Egi. Doumland jarest Eg: Components + Ey: - Aprile Luc new

API - Appi Schuntic Versioning. Interf Yutches Major version Minnon Ver sion (By roger changes, nimar chufes, fires) bruks the
API) Lock not brock the AP?) 19:0 IDM 6.18.7 ner festures are compatible about in a brokward - compatible

appund a hyphen to the end of semantic versioning (sember) Pre-Roberses Segrence 1.0.0 - 1.0.0- dpha.1

1.0.0 Letones development phuse is curriched out.

3) 1.5t stable version — 1.0.0 (v1.0.0)