CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

For Practical Examination Only

Session: Nov-Dec 2021 Examination

Name of Examination: B.tech, Regular	Semester: 3rd Date: .04./.04./2022
Subject Code: . <u>B022324(022)</u>	ect Name: Software Laboratory (Sci Lab/Mat Lab
Name of Student: V Om Sai Nageshwar Shar	ma
Roll No. of Student:303302220020	Enroll No: BJ4599
Name of the Institution: SSIPMT, Raipur	Institute Code:033
Name of Experiment Allotted: Q1.)[4].Sci.Lab.p	program to calculate area of circle.
Q2.)[11] Write a program to check a giver	n matrix is symmetric or not.

Signature of Student



(31)(4) Scilab program to calculate area of circle.

AIM: Sci-Lab program to calculate area of circle.

Objective: How to use some mathematical symbols in scilab.

Like pi, And using it in calculating area of circle.

code: /* Scilab Program to calculate area of a circle. Area = pi* r^2

*/

r = input ("Enter radius of a circle(incm)")

Area = 1. pi *(r^2);

msg = "Area of the circle is:";

disp(AREA, meg)

Output:

Enter radius of a circle (in cm):12 Area of the circle is:

452.389342169302087037

Pg. No. -> 2

(92)(11) Write a program to check a given matrix is symmetric or not

AIM: Write a program to check a given matrix is symmetric or not.

Objective: How to implement decision making statements in scilab.

And performing transpose of matrix.

Code: /* Sci Lob program to check a given matrix is symmetric or not.

A matrix is symmetric if it's transpose is same as actual matrix.

A = A' */

a = input (Enter a Matrix:'); b = a'; $il a == b \cdot then$

if $a == b \cdot then$ disp ("Given matrix is symmetric.")
else
disp ("Given matrix is Not-Symmetric.")
end

Pg. No. > 3

Output:

Enter a Matrix: [1,2,3,3,2,1]

Friver matrix is not symmetric.

Enter a Matrix: [1,0,0,1]

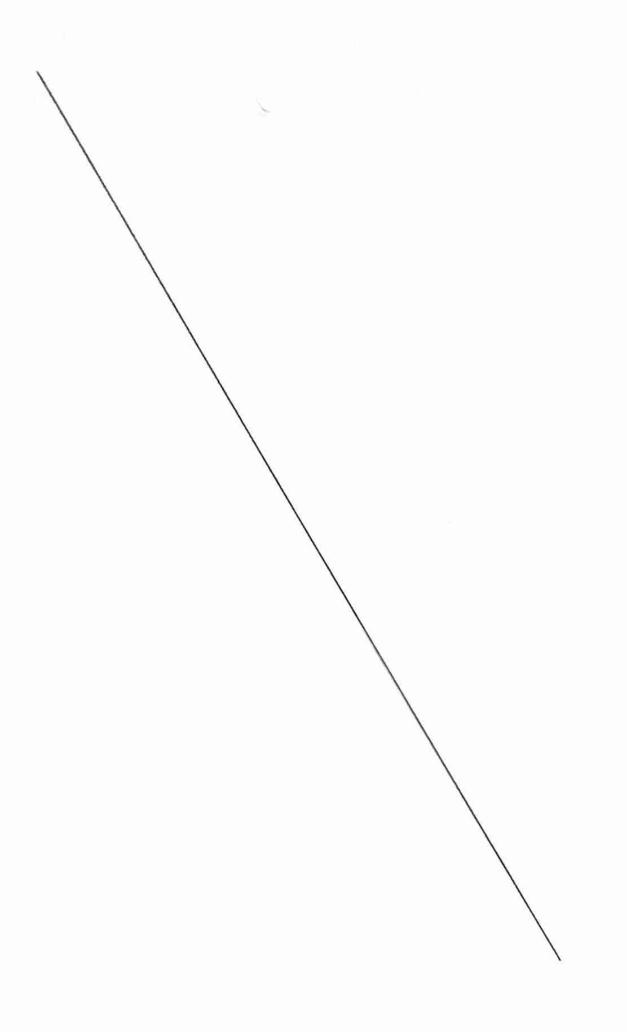
Given matrix is symmetric.

Pg. No. > 4

Pg. No.→ 5

Pg. No. -> 6

Pg. No. -> 7



Pg. No.→ 8