

Exercise 1: Revise input and output statements in C

Write a C program to enter the radius of a circle and displays the diameter, the circumference and the area.

Exercise 2: Practice arithmetic operators in C

Write a program that inputs one five-digit number, separates the number into its individual digits and prints the digits separated from one another.

Ex: if user types, 42139, the program should print 4 2 1 3 9

Exercise 3: Practice relational and logical operators in C

Assume $i = 1$, $j = 2$, $k = 3$ and $m = 2$. What does each of the following statements print?

- i. `printf("%d", i == 1);`
- ii. `printf("%d", j == 3);`
- iii. `printf("%d", i >= 1 && j < 4);`
- iv. `printf("%d", k + m < j || 3 - j >= k);`
- v. `printf("%d", !m);`
- vi. `printf("%d", !(j - m));`

Exercise 4 : Practice flowchart with decisions

Draw a flow chart to

- i. Enter the marks for two modules of a student and find the average mark. Display "Pass" if the average is above 45, otherwise display "Fail".
- ii. Enter the gender and the age of a person from the keyboard and display "SeniorMale" or "SeniorFemale". Age greater than or equal to 65 is taken as the condition to determine whether a person is a senior citizen.
- iii. Enter the mark obtained for IP module and display the grade based on the below criteria.

Mark	Grade
$100 \geq \text{Mark} \geq 80$	A
$79 \geq \text{Mark} \geq 70$	B
$69 \geq \text{Mark} \geq 45$	C
< 45	F