

Structure

- (a) Write a Structure named ***Student*** with the following attributes:

- int id
- string name
- double cgpa
- char gender
- int creditCompleted
- string department

The structure also has the following method:

- bool checkProbation()

The method checks for students whose cgpa is less than 2.5.

Write a main method to create an array of 5 students and print the name of the probation students from the array.

- (b) Write a Structure named ***Book*** with the following attributes:

- string isbn
- string title
- string authorName
- int publicationYear
- double price
- int noOfPages

The structure also has the following method:

- bool checkOldBook()

The method checks for Books whose publication year is before than 1950.

Write a main method to create an array of 5 Books and print the title of the Old Books from the array.

- (c) Write a Structure named ***Mobile*** with the following attributes:

- string manufacturerName
- string modelName
- int ram
- int rom
- double cameraPixel
- double price

The structure also has the following method:

- bool isForGaming()

The method checks for Mobile which has more than 6GB Ram.

Write a main method to create an array of 5 Mobiles and print the manufacturer name and model name of the Mobiles from the array which are recommended for gaming.

(d) Write a Structure named ***Teacher*** with the following attributes:

- int id
- string name
- double salary
- string designation
- string department

The structure also has the following method:

- bool isLecturer()

The method checks for Teachers whose designation is Lecturer.

Write a main method to create an array of 5 Teachers and print the name of the Teachers from the array who are Lecturer.