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| Program  11.1 | Write a program to read the marks of 10 students for the subject CE143 Computer concepts and Programming and computes the number of students in categories FAIL, PASS, FIRSTCLASS and DISTINCTION using Pointers and Arrays.   |  |  | | --- | --- | | Marks | Categories | | 70 and above | Distinction | | 60 to 69 | First class | | 50 to 59 | Pass | | Below 40 | Fail | |
| Algorithm: | Step1:Start  Step2:Declare structure for student details  Step3:Declare an array inside structure which stores the marks  Step4:Input the marks of student one by one  Step5:If marks are 70 or above ,print distinction  Step6:If marks are between 69 and 60 , print First class  Step7:If marks are between 59 to 40 , print pass  Step8:If marks are below or equal 40 , print fail  Step9:If roll no of student less than 10 then go to step4  Step10:Stop. |
| Flowchart: |  |
| Code: |  |
| Output: |  |
| Question  Answer? | **Explain the importance of using pointers?**  **Ans:**  Pointers allow us to perform dynamic memory allocation  and deallocation. Pointers helps us to build complex data  structures like linked list, stack, queues, trees, graphs etc. Pointers allow us to resize the dynamically allocated memory block. Addresses of objects can be extracted using pointers. |