COMPUTER SCIENCE
CLASS XII
ASSIGNMENT-PRACTICALS

Q1   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-
EMPLOYEE NUMBER
EMPLOYEE NAME(STRING)
BASIC SALARY(FLOAT)
HRA(FLOAT)
TAKE 5 RECORDS FROM THE USER AND PRINT THEM IN THE FORMATTED FORM.
NO.   NAME   BASIC   HRA   TOTAL (BASIC+HRA)

Q2   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-
EMPLOYEE NUMBER
EMPLOYEE NAME(STRING)
BASIC SALARY(FLOAT)
HRA(FLOAT)
 TAKE 5 RECORDS FROM THE USER .PRINT THEM. ADD A NEW EMPLOYEE IN THE ARRAY AT NTH POSITION WHOSE DETAILS ARE TAKEN FROM THE USER AND PRINTS THE NEW ARRAY ALSO .

Q3   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-
EMPLOYEE NUMBER
EMPLOYEE NAME(STRING)
BASIC SALARY(FLOAT)
HRA(FLOAT)
TAKE 5 RECORDS FROM THE USER .PRINT THEM. CHANGE THE BASIC SALARY   OF THE EMPLOYEE NUMBER TAKEN FROM THE USER. PRINT THE NEW ARRAY.

Q4   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-
EMPLOYEE NUMBER
EMPLOYEE NAME(STRING)
BASIC SALARY(FLOAT)
HRA(FLOAT)
         TAKE 5 RECORDS FROM THE USER .PRINT THEM. DELETE THE EMPLOYEE FROM THE ARRAY WHOSE EMPLOYEE NUMBER IS TAKEN FROM THE USER. PRINT THE NEW ARRAY ALSO

Q5   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-
EMPLOYEE NUMBER
EMPLOYEE NAME(STRING)
BASIC SALARY(FLOAT)
HRA(FLOAT)
CREATE AN ARRAY STORING THESE DETAILS OF 5 EMPLOYEES .
INCREASE THE BASIC SALARY BY 10 % OF THOSE EMPLOYEES WHOSE
SALARY IS LESS THAN1000. PRINT THE NEW ARRAY ALSO

Q6   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-
EMPLOYEE NUMBER
BASIC SALARY(FLOAT)

CREATE AN ARRAY STORING THESE DETAILS OF 5 EMPLOYEES .PRINT THE ARRAY.
SEARCH FOR THE EMPLOYEE IN THE ARRAY WHOSE NUMBER IS TAKEN FROM THE USER.IF FOUND PRINT THE DETAILS ELSE PRINT EMPLOYEE NOT FOUND(USE BINARY SEARCH).

Q7   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-
EMPLOYEE NUMBER
EMPLOYEE NAME(STRING)
BASIC SALARY(FLOAT)
HRA(FLOAT)
CREATE AN ARRAY STORING THESE DETAILS OF 5 EMPLOYEES .PRINT THE ARRAY. ADD THE SECOND NAME OF ALL EMPLOYEES AT THE END OF FIRST NAME. PRINT THE NEW ARRAY ALSO

Q8   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-
EMPLOYEE NUMBER
EMPLOYEE NAME(STRING)
CREATE AN ARRAY STORING THESE DETAILS OF 5 EMPLOYEES .PRINT THE   ARRAY. SORTS THE ARRAY ACCORDING TO EMPLOYEE'S NO USING BUBBLE SORT METHOD.PRINT THE SORTED ARRAY.

Q9   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-
EMPLOYEE NUMBER
EMPLOYEE NAME(STRING)
BASIC SALARY(FLOAT)
HRA(FLOAT)
TAKE 5 RECORDS FROM THE USER AND STORE IT IN A FILE AND PRINT THEM IN THE FORMATTED FORM.
NO.   NAME   BASIC   HRA   TOTAL (BASIC+HRA)

Q10   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-

EMPLOYEE NUMBER
EMPLOYEE NAME(STRING)
BASIC SALARY(FLOAT)
HRA(FLOAT)
 TAKE 5 RECORDS FROM THE USER AND STORE IT IN A FILE .PRINT THEM. ADD A NEW EMPLOYEE IN THE FILE AT NTH POSITION WHOSE DETAILS ARE TAKEN FROM THE USER AND PRINTS THE NEW FILE ALSO .

Q11   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-
        EMPLOYEE NUMBER
        EMPLOYEE NAME(STRING)
        BASIC SALARY(FLOAT)
        HRA(FLOAT)
        TAKE 5 RECORDS FROM THE USER AND STORE IT IN A FILE .PRINT THEM.   CHANGE THE BASIC SALARY   OF THE EMPLOYEE NUMBER TAKEN FROM THE   USER. PRINT THE NEW FILE.

Q12   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-
        EMPLOYEE NUMBER
        EMPLOYEE NAME(STRING)
        BASIC SALARY(FLOAT)
        HRA(FLOAT)
                TAKE 5 RECORDS FROM THE USER AND STORE IT IN A FILE .PRINT THEM. DELETE THE EMPLOYEE FROM THE FILE WHOSE EMPLOYEE NUMBER IS TAKEN FROM THE USER. PRINT THE NEW FILE ALSO.

Q13   A COMPANY MAINTAINS THE RECORD OF ITS EMPLOYEES WITH THE FOLLOWING DETAILS STORED IN A C++ CLASS:-
        EMPLOYEE NUMBER
        EMPLOYEE NAME(STRING)
        BASIC SALARY(FLOAT)
        HRA(FLOAT)
        CREATE A FILE STORING THESE DETAILS OF 5 EMPLOYEES .
        INCREASE THE BASIC SALARY BY 10 % OF THOSE EMPLOYEES WHOSE
        SALARY IS LESS THAN1000. PRINT THE NEW FILE ALSO

Q14   WRITE A C++ PROGRAM THAT CREATES A TEXT FILE "A.DAT" AND PRINTS IT.IT THEN CREATES ANOTHER FILE "B.DAT"
        AND COPIES A IN B SUCH THAT
        1.   ALL UPPERCASE CHARACTERS OF A ARE REPLACED BY LOWERCASE
        2.   ALL COMMAS ARE REPLACED BY BLANKS .PRINT THE FILE B ALSO

Q15   WRITE A C++ PROGRAM THAT CREATES A TEXT FILE "A.DAT" AND PRINTS IT.IT THEN COUNTS NO OF WORDS STARTING
        WITH "A" AND NUMBER OF SPACES IN THE FILE

Q16   WRITE A C++ PROGRAM THAT CREATES A TEXT FILE "A.DAT" WHICH CONTAINS INTEGERS . COPY THE FILE IN B.DAT SUCH
        THAT ONLY EVEN NUMBERS ARE COPIED.

Q17   STACKS ARE STORED AS LINKED LISTS. STORE THE FOLLOWING DETAILS OF 5 STUDENTS STORED IN A STRUCTURE.
        ROLLNO.
        MARKS
        DEFINE A CLASS , " STACK" :- THAT HAS PUSH AND POP MEMBER FUNCTIONS FOR THE STUDENTS.
        PRINT THE STACK IN THE REVERSE ORDER OF INPUT.DELETE TWO ELEMENTS FROM STACK AND ADD A NEWELEMENT IN
        THE STACK AND PRINT THE NEW STACK AFTER EVERY STEP .

Q18   QUEUES ARE STORED AS LINKED LISTS. STORE THE FOLLOWING DETAILS OF 5 STUDENTS, EACH DEFINED IN A
        STRUCTURE AS:-
        ROLLNO.
        MARKS
        DECLARE A CLASS QUEUE THAT HAS MEMBER FUNCTIONS FOR THE QUEUE OPERATIONS.PRINT THE QUEUE. TAKE A NEW
        RECORD FROM THE USER.PRINT THE NEW QUEUE . ALSO DELETE THE FIRST ELEMENT IN THE QUEUE AND PRINT THE
        QUEUE AFTER EVERY STEP .

Q19   STACKS ARE STORED AS ARRAYS. STORE THE FOLLOWING DETAILS OF 5 STUDENTS, EACH DEFINED IN A CLASS ,:-
        ROLLNO.
        MARKS
        PRINT THE STACK IN THE REVERSE ORDER OF INPUT.DELETE TWO ELEMENTS FROM STACK AND ADD A NEW ELEMENT IN
        THE STACK AND PRINT STACK AFTER EVERY STEP .

Q20   QUEUES ARE STORED AS ARRAYS. STORE THE FOLLOWING DETAILS OF 5 STUDENTS, EACH DEFINED IN A CLASS ,:-
        ROLLNO.
        MARKS
        PRINT THE QUEUE. TAKE A NEW RECORD FROM THE USER.PRINT THE NEW QUEUE . ALSO DELETE THE FIRST ELEMENT
        IN THE QUEUE AND PRINT THE QUEUE AFTER EVERY STEP .
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