

Assessment Parameters

- Solution Completeness (including all requirements addressed) – 20%
- Working solution for each requirement – 60 %
- Comments – 10%
- Coding standards – 10%
- Plus any other parameters relevant to the particular technology, in which case the percentages for first two points may change.

Capgemini Global Solutions requires a system to be designed, which will calculate the salary for each employee and print the payslip.

The attendance file has details about the no. of days an employee was present for a given month. The leave availed by employees is maintained in the leave file. The employee file has the details of the salary components for the employee together with the employee code, name and designation.

Employee [Indexed file]

Emp-code	N	6	→ Record key
Emp-name	X	15	
Emp-desg	A	15	
Emp-basic	N	5	
Emp-hra	N	2	(% of Emp-basic)
Emp-cca	N	4	
Emp-prof-tax	N	4	

Sample Data

Emp-code	Emp-Name	Emp-desg	Emp-basic	Emp-hra	Emp-cca	Emp-prof-tax	Emp-pay-mode
4001	Jack	SSE	12000	25	1500	200	Cheque
3056	John	MANAGER	17000	40	5000	300	Bank Transfer
5123	Sarah	MANAGER	18000	35	5000	300	Bank Transfer
2345	Jones	SE	6000	50	1000	100	Bank Transfer
1004	Steffi	SS	13000	40	2500	200	Cheque

Module Test (Practical): COBOL

Attendance [Indexed file]

Att-emp-code N 6 —► Record key
 Att-days present N 2
 Att-leave-days N 2

Att-emp-code	Att-days present	Att-leave-days
5123	30	
4001	26	
3056	20	
2345	20	

Leave [Sequential file]

Lv-emp-code N 6
 Lv-type A 2
 Lv-days N 2

Lv-emp-code	Lv-type	Lv-days
3056	PL	8
3056	SL	2
4001	PL	4

The following files have been provided.
 EMP01

SELECT EMPLOYEE-FILE ASSIGN TO 'EMP DAT'
 ORGANIZATION IS INDEXED
 ACCESS IS DYNAMIC
 RECORD KEY IS EMP-CODE

EMP02

FD EMPLOYEE-FILE
 LABEL RECORDS STANDARD
 RECORD CONTAINS 80 CHARACTERS
 BLOCK CONTAINS 0 RECORDS
 01 EMPLOYEE-REC
 05 EMP-CODE PIC 9(06)
 05 EMP-NAME PIC X(15)
 05 EMP-DESG PIC A(15)
 05 EMP-BASIC PIC 9(05)
 05 EMP-HRA PIC 9(02)
 05 EMP-CCA PIC 9(04)
 05 EMP-PROF-TAX PIC 9(04)

ATT01

SELECT ATTENDANCE-FILE ASSIGN TO 'ATTEND DAT'
 ORGANIZATION IS INDEXED
 ACCESS IS DYNAMIC

RECORD KEY IS ATT-EMP-CODE.

ATT02

FD

ATTENDANCE-FILE
LABEL RECORDS STANDARD
RECORD CONTAINS 80 CHARACTERS
BLOCK CONTAINS 0 RECORDS.

01

ATTENDANCE-REC

05 ATT-EMP-CODE PIC 9(06)

05 ATT-DAYS-PRESENT PIC 9(02)

05 ATT-LEAVE-DAYS PIC 9(02)

LV01

SELECT LEAVE-FILE ASSIGN TO 'LEAVE.DAT'
ORGANIZATION IS LINE SEQUENTIAL

LV02

FD

LEAVE-FILE
LABEL RECORDS STANDARD
RECORD CONTAINS 80 CHARACTERS
BLOCK CONTAINS 0 RECORDS

01

LEAVE-REC

05 LV-EMP-CODE PIC 9(06)

05 LV-TYPE PIC A(02)

05 LV-DAYS PIC 9(02)

Problem :

Accept the month and year from the user.

Calculate the total no. of leave days for each employee and update the field leave_days (in the attendance file) for the respective employee.

Print the payslip for all the employees whose name appears in the attendance file in the sequence of employee code. Each payslip is to be printed on a new page.

Note: PF is calculated as 12% of the basic paid. All other components including HRA, CCA, etc. can have valid formulae as per the typical calculations.

Assumption: Date details are not present in any of the files so we can consider any dummy month having 30 days in total.

e.g. if the user enters June 2001 the following will be the first pay slip to be printed.

Capgemini Global Solutions

Salary slip for the month of June - 2001

Code 2345
Name Jones
Designation SE

Days payable: 20

LOP Days: 10

Earnings			Deductions	
	Rate	Amount Paid		Amount
BASIC	6000	4000.00	PF	480.00
HRA	3000	2000.00	PTAX	100.00
CCA	1000	666.67		
Gross Salary		6666.67	Gross Deduction	580.00

Net Pay By Bank Transfer for Rs. 6086.67