INDIAN SCHOOL AL GHUBRA

CLASS XII COMPUTER SCIENCE

LIST OF QUESTIONS FOR PRACTICAL EXAMINATION

1. Write a menu driven Python program to create a binary file named STUDENT.DAT with Roll no, Name and Mark. Display all the records along with line/record number. Also write a function to search for a user entered roll number and display the details, if not found display appropriate message.
2. Write a menu driven program to do the following based on a text file. Have the program take the file name from the user. Write functions for the following:

Count and display the number of upper case and lower case characters in the file. Display whether the file contains more number of upper case or lower case characters and by how much.

Create a new file which contains all the lines of the first file starting with P. Also display the number of lines in the second file.

1. A file phonebook.dat stores the details in the following format

|  |  |
| --- | --- |
| Name | Phone |
| Jeevan | 8666999888 |
| Kevin | 11252569 |

Write a program to edit the phone number of Arman in the file. If there is no record corresponding to Arman, report error.

1. A binary file “emp.dat” has structure [EID, Ename, designation, salary].
2. Write a user defined function CreateEmp() to input data for a record and create a file emp.dat.
3. Write a function display() in Python to display the detail of all employees whose salary is more than 50000.
4. A binary file “Book.dat” has structure [BookNo, Book\_Name, Author, Price].
5. Write a user defined function CreateFile() to input data for a record and add to

“Book.dat” .

1. Write a function CountRec(Author) in Python which accepts the Author name as

parameter and count and return number of books by the given Author are stored in the binary file “Book.dat”.

1. A binary file “STUDENT.DAT” has structure (Admission\_number, Name, Percentage). Write a function countrec() in Python that would read contents of the file STUDENT.DAT” and display the details of those students whose percentage is above 75. Also display number of students scoring above 75% .
2. A binary file “emp.DAT” has structure (EID, Ename, Designation,Salary).

i)Write a function to add more records of employees in existing file emp.dat. ii) Write a function Show() in Python that would read detail of employee from file “emp.dat” and display the details of those employee whose designation is “Salesman”.

1. Implement the below functions for a stack using a menu driven program

A function in Python is named PUSH(Arr), where Arr is a list of numbers. From this list push all numbers divisible by 5 into a stack implemented by using a list. Display the stack if it has at least one element, otherwise display appropriate error message.

A function in Python is named POP(Arr), where Arr is a stack implemented by a list of numbers. The function returns the value deleted from the stack.

1. InfoMyriads Pvt. Ltd. needs to store, retrieve and delete the records of its employees. Develop an interface that provides front-end interaction through Python, and stores and updates records using MySQL.

a)Write a program to read and fetch all the records from EMP table having salary more than 70000.

b) Write a program to update the records of employees by increasing salary by 1000 of all those employees who are getting less than 80000.

c)Write a program to delete the record on the basis of inputted salary.

d) Write a program to display all records in ascending order of their salary.

e) Write a program to delete the employee record whose name is read from the keyboard at execution time.

1. Infopedia is an online encyclopedia which stores detailed information about various countries. In order to provide efficient processing for retrieval and display of names of countries, it has to be digitized, which requires handling additions and deletions through data structures in Python, primarily stacks and queues.
2. Write a menu driven program constituting methods in Python to add, display and remove a name from a given stack of names of countries.