# INDIAN SCHOOL AL WADI AL KABIR
## Worksheet, 2025-26

| Class: XII Comp. Sci. | Department: Computer Science | |
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| Worksheet No: 4 | Topic: Data Files – BINARY FILES,CSV FILES | Note: |

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| 1 | A binary file "Book.dat" has structure [BookNo, Book_Name, Author, Price].<br>1. Write a user defined function CreateFile() to input data for a record and add to Book.dat .<br>2. 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 |
| 2 | 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%. |
| 3 | Write a function in python to search and display details, whose destination is "Cochin" from binary file "Bus.Dat". Assuming the binary file is containing the following elements in the list:<br>1. Bus Number<br>2. Bus Starting Point<br>3. Bus Destination |
| 4 | Write a function addrec() in Python to add more new records at the bottom of a binary file "STUDENT.dat", assuming the binary file is containing the following structure :<br>[Roll Number, Student Name] |
| 5 | Write a function searchprod( pc) in python to display the record of a particular product from a file product.dat whose code is passed as an argument. Structure of product contains the following elements [product code , product price] |
| 6 | Write a function routechange(route number) which takes the Route number as parameter and modify the route name(Accept it from the user) of passed route number in a binary file "route.dat". |
| 7 | Write a program to display all the records from product.csv whose price is more than 300. Format of record stored in product.csv is product id, product name, price. |
| 8 | Write a function countrec(sport name) in Python which accepts the name of sport as parameter and count and display the coach name of a sport which is passed as argument from the binary file "sport.dat". Structure of record in a file is [sport name, coach name] |
| 9 | A binary file "salary.DAT" has structure [employee id, employee name, salary]. Write a function countrec() in Python that would read contents of the file "salary.DAT" and display the details of those employee whose salary is above 20000. |

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| 10 | Amit is a monitor of class XII-A and he stored the record of all the students of his class in a file named "class.dat". Structure of record is [roll number, name, percentage]. His computer teacher has assigned the following duty to Amit<br>Write a function remcount( ) to count the number of students who need remedial class (student who scored less than 40 percent) |
| 11 | A binary file "emp.dat" has structure [employee id, employee name]. Write a function delrec(employee number) in Python that would read contents of the file "emp.dat" and delete the details of those employee whose employee number is passed as argument. |
| 12 | Write a program to read all content of "student.csv" and display records of only those students who scored more than 80 marks. Records stored in students is in format : Rollno, Name, Marks |
| 13 | Write a program to search the record from "data.csv" according to the admission number input from the user. Structure of record saved in "data.csv" is Adm_no, Name, Class, Section, Marks |
| 14 | Vedansh is a Python programmer working in a school. For the Annual Sports Event, he has created a csv file named Result.csv, to store the results of students in different sports events. The structure of Result.csv is : [St_Id, St_Name, Game_Name, Result]<br>Result is result of the game whose value can be either 'Won', 'Lost' or 'Tie'<br>For efficiently maintaining data of the event, Vedansh wants to write the following user defined functions:<br>Accept() – to accept a record from the user and add it to the file Result.csv. The column headings should also be added on top of the csv file.<br>wonCount() – to count the number of students who have won any event.<br>As a Python expert, help him complete the task. |
| 15 | A Binary file, CINEMA.DAT has the following structure:<br>{MNO:[MNAME, MTYPE]}<br>Write a user defined function, findType(mtype), that accepts mtype as parameter and displays all the records from the binary file CINEMA.DAT, that have the value of Movie Type as mtype. |