SAINIK SCHOOL AMBIKAPUR
CHHATTISGARH
WINTER VACATION HOMEWORK (2022-23)

Class - 12   Subject- Computer Science

Class 12	Subject – Computer Science	Teacher- Pradeep Kumar Dangre
Ser	Items	Details
1.	Syllabus for PT - III	Unit I: Computational Thinking and Programming – 2 Unit III: Database Management Interface of python with an SQL database
2.	Revision Homework / Assignment	(Write all Questions in your Computer Notebook) Q.1 WAP in Python to create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message. Q.2 WAP in Python to create a binary file with roll number, name and marks. Input a roll number and update the marks. Q.3 Create a student table and insert data. Implement the following SQL commands on the student table: →ALTER table to add new attributes / modify data type / drop attribute → UPDATE table to modify data →ORDER By to display data in ascending / descending order →DELETE to remove tuple(s) → GROUP BY and find the min, max, sum, count and average Q.4 Write a Python code for pickling of Employee class and read the employee object from the file using unpickling. Q.5 WAP to remove all the lines that contain the character 'a' in a file and write it to another file.
3.	Subject Capacity Building Assignment	Project: 1. Make a Computer generated project in Python with MySQL interface in decided groups on given topics. (any one) BANK MANAGEMENT SYSTEM UPSC REGISTRATION INFORMATION SYSTEM BOOK SHOP MANAGEMENT SYSTEM CYBER CAFE MANAGEMENT SYSTEM ELECTRICITY BILLING SYSTEM HOSPITAL MANAGEMENT SYSTEM MARRIAGE BUREAU SYSTEM MEDICAL STORE MANAGEMENT SYSTEM ATM PROJECT LIBRARY MANEGMENT SYSTEM MOVIE TICKET BOOKING RAILWAY RESERVATION SYSTEM 2. Make a Computer Practical notebook with the given list of programs.
4.	Preparatory Work for Units/ Chapters to be covered after	Unit II: Computer Networks Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.

Signature