



SAINIK SCHOOL CHANDRAPUR

DEPARTMENT OF COMPUTER SCIENCE

VACATION WORK

ACADEMIC SESSION 2023-24

CLASS VIII

Important Instructions:

1. Cadets will have to maintain a 100 pages notebook or Bunch of ruled pages to write down / pasting pictures / taking notes for the project work.
2. This copy will be different from class notebook. This copy will be brought and submitted by cadet during physical joining of the cadet.
3. Cadet will have to paste the given format on the front page of the assignment before submission. (Format attached after classwork)

THEORY

1. Write down Answers for the given questions below:

- a. What are the basic components of computers, also search on internet about evolution of operating system and enlist most popular operating systems their origin and related basic information about them.
- b. How algorithms and flow charts are effective in terms of computer program, explain with the help of example.
- c. What is computer networking, how computers can communicate with each other, explain the mode of connection of computers to gather / to share information between them. Also explain PAN, LAN, MAN, WAN and topologies used to create this configuration in networking also focus on the difference between internet and WAN.
- d. How computer apps are developed / designed, explore internet to get the ways to develop computer applications, also focus on the plat forms used to develop computer apps. Also explain the difference between paid apps, freeware apps and open-source apps in details with example.

PRACTICAL

1. Create model/practical for the given questions:

- a. Create a multi coloured booklet providing detailed information about computer system, basic components, hardware, software, system software (OS and Drivers), Types of operating systems, characteristics of an operating system, Role of an operating system in computers, application software, popular application software, common dos and don'ts while using a computer system.
- b. Create a working model of flow chart for IF condition in a program which must have capability to decide over the input received by user. (possible program can be used is greater number between 3 different numbers).
- c. Find and enlist free and paid software used to design another computer software / to write a program. Write down the names of each of them with short description of each one of them one the basis of concept of IDE's.
- d. Create a webpage in html has basic information about yourself like Name, Roll number, fathers name, mothers name, address and a photograph.

Front page Format





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HOLIDAY HOMEWORK RECORD BOOK

Academic Session 2023-24

Roll No of Cadet _____

Name of Cadet _____

Class _____ **Sec** _____ **House** _____