

**COMPUTER SCIENCE 9608-SCHEME OF WORK 2019**  
**GRADE 13**

**Section 3 : Advanced Theory**

**RESOURCES:** Books prescribed, Other books related to the syllabus, Online Resources

**ACTIVITIES:** Classwork, Homework, Group Work, Peer Tutoring

**TEACHING AIDS USED:** Whiteboard, Diagrams, Laptops, Charts, Computers

**AIMS & OBJECTIVES:** The student should be able to show understanding on data representation, Communication and Internet technologies, hardware, system software, security, monitoring and control systems.

**SECTION 4 FURTHER PROBLEM-SOLVING AND PROGRAMMING SKILLS**

**Aims & Objectives:** The student should be able to understand the concept Of Computational Thinking And Problem-Solving And Algorithm Design Methods.

**FIRST TERM(11 JAN -12 APR 2019)**

<b>WEEKS</b>	<b>DATE</b>	<b>TOPICS</b>	<b>LEARNING OUTCOME</b>	<b>REMARKS</b>
1	14-18Jan	<b>3.1.1 User-defined data types</b>	<ul style="list-style-type: none"> <li>• show understanding of why user-defined types are necessary</li> <li>• define and use non-composite types: enumerated, pointer</li> <li>• define and use composite data types: set, record and class/object</li> <li>• choose and design an appropriate user-defined data type for a given problem</li> </ul>	
1	14-18Jan	<b>3.1.2 File organisation and access</b>	<p>3.1.2 File organisation and access</p> <ul style="list-style-type: none"> <li>• show understanding of methods of file organisation: serial, sequential (using a key field) and random (using a record key)</li> <li>• show understanding of methods of file access:               <ul style="list-style-type: none"> <li>– sequential access for serial and sequential files</li> <li>– direct access for sequential and random files</li> </ul> </li> <li>• select an appropriate method of file organisation and file access for a given problem</li> </ul>	

# Computer Science Scheme Of Work Khalsasecondary

**M Lipman**



## **Computer Science Scheme Of Work Khalsasecondary:**

**Resources in Education** ,1988      Indian Books in Print ,2003      Computer Science Success (2024) for Class 2 Sayan Banerjee,2024-01-01 Welcome to the exciting world of Computer Science Success our comprehensive computer series which is tailored for the learners from classes 1 to 8 In today s fast paced digital landscape computers have seamlessly integrated into nearly every aspect of our daily lives from our homes to our workplaces Proficiency in computer knowledge has become a fundamental requirement for success in a wide range of careers Moreover the boundless realm of the Internet serves as an invaluable repository of knowledge Our series is meticulously crafted to equip students with not just computer skills but also creativity and diligence needed to excel in the ever evolving world of technology Drawing inspiration from the National Education Policy NEP 2020 we have seamlessly integrated key NEP elements and essential 21st Century Skills into practical activities throughout our chapters Our chapters are aligned with the six phases of logical understanding outlined in the latest National Curriculum Framework NCF 2023 fostering cognitive abilities in Perception Inference Comparison Postulation Non Apprehension and Verbal Testimony Our books are a treasure trove of relevant topics and engaging features that make learning a truly enjoyable journey Features of the Series Course Book Learning Objectives Goals aimed at achieving by the end of the chapter Do and Learn Engaging activities fostering practical learning experiences Know More Nuggets of knowledge sparking curiosity and encouraging further exploration Facts Historical or relevant facts enriching the understanding of the topic Think About It Provocative questions prompting critical thinking and active engagement Summary Summarise chapter for a quick grasp of key concepts Exercises A variety of questions for self assessment Activity Zone Hands on activities connecting students to key concepts including Life Skills and Problem Solving challenges Teacher s Notes Valuable suggestions for educators to enhance the teaching learning experience Test Papers Comprehensive assessments covering all chapters for thorough evaluation Project Work Problem solving projects designed to test practical application skills Annexure Supplementary knowledge to enrich both computer and life skills Features of the Series Other Components Teacher s Resource Book Contains lesson plans and detailed solutions to questions Online Support E books and animated videos of the text to enhance the learning process We hope that our series Computer Science Success caters to the requirements of the teachers and the learners Suggestions to enhance our books are welcomed as we collectively shape the future of education Authors

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## **Table of Contents Computer Science Scheme Of Work Khalsasecondary**

1. Understanding the eBook Computer Science Scheme Of Work Khalsasecondary
  - The Rise of Digital Reading Computer Science Scheme Of Work Khalsasecondary
  - Advantages of eBooks Over Traditional Books
2. Identifying Computer Science Scheme Of Work Khalsasecondary
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Computer Science Scheme Of Work Khalsasecondary
  - User-Friendly Interface
4. Exploring eBook Recommendations from Computer Science Scheme Of Work Khalsasecondary
  - Personalized Recommendations
  - Computer Science Scheme Of Work Khalsasecondary User Reviews and Ratings
  - Computer Science Scheme Of Work Khalsasecondary and Bestseller Lists
5. Accessing Computer Science Scheme Of Work Khalsasecondary Free and Paid eBooks
  - Computer Science Scheme Of Work Khalsasecondary Public Domain eBooks
  - Computer Science Scheme Of Work Khalsasecondary eBook Subscription Services
  - Computer Science Scheme Of Work Khalsasecondary Budget-Friendly Options

6. Navigating Computer Science Scheme Of Work Khalsasecondary eBook Formats
  - ePub, PDF, MOBI, and More
  - Computer Science Scheme Of Work Khalsasecondary Compatibility with Devices
  - Computer Science Scheme Of Work Khalsasecondary Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Computer Science Scheme Of Work Khalsasecondary
  - Highlighting and Note-Taking Computer Science Scheme Of Work Khalsasecondary
  - Interactive Elements Computer Science Scheme Of Work Khalsasecondary
8. Staying Engaged with Computer Science Scheme Of Work Khalsasecondary
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Computer Science Scheme Of Work Khalsasecondary
9. Balancing eBooks and Physical Books Computer Science Scheme Of Work Khalsasecondary
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Computer Science Scheme Of Work Khalsasecondary
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Computer Science Scheme Of Work Khalsasecondary
  - Setting Reading Goals Computer Science Scheme Of Work Khalsasecondary
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Computer Science Scheme Of Work Khalsasecondary
  - Fact-Checking eBook Content of Computer Science Scheme Of Work Khalsasecondary
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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