GIRLS' HIGH SCHOOL AND COLLEGE

2020-2021

CLASS 12 B

COMPUTER SCIENCE

WORKSHEET -05

<u>Note</u>: Parents please ensure that your ward refers to a computer science book/internet for two days to read the topics Objects and Classes AND Java Revision tour.

<u>Reference Book</u>: Computer Science with Java for class 12 by Sumita Arora

<u>Website</u>: geeksforgeeks.org

CHAPTER- <u>OBJECTS AND CLASSES</u>

<u>Answer the following questions</u>:

1. Define the following:

    (i)   Class

    (ii)   Object

2. Write any two features of an object.

3. What do you mean by Abstraction and encapsulation? How are these two terms interrelated?

4. What is object oriented programming paradigm? Name the four basic concepts of OOP?

5. Why is data considered safe if encapsulated?

6. What are the different access specifiers in java?

7. How are protected members different from public and private members of a class?

8. What is a constructor? What does it do?

9. How are parameterized constructors different from non-parameterized constructors?

10. What is the difference between constructors and other methods?

11. What does it mean that a method or field is static?

12. Design a class Bank to represent a bank account with the following details:

    Data Members:

    name   :   Name of the depositor

acc_no	:	Account number
acc_type	:	Type of account
bal	:	Balance amount in the account

Methods:

Bank(....)	:	parameterized constructor to initialize data members
deposit()	:	to deposit an amount
withdraw()	:	to withdraw an amount after checking balance
display()	:	to display the name and balance

CHAPTER - JAVA REVISION TOUR

Answer the following questions:

1. What makes java a platform independent language?
2. What are data types? Explain the different data types in brief.
3. What is the difference between prefix and postfix forms of the ++operator?
4. What is Exception Handling? What is the purpose of finally block in try catch statement?
5. Write a program that determines number of words in a given text file.

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