



## Worksheet

2

Name:		
Roll No:	Class:	Section:
Date:		

## CONSTRUCTORS

Chapter-12

- 1. State whether the following statement is true or false.
  - (a) The compiler supplies a special constructor in a class that does not have any constructor.
  - (b) A constructor is not defined with any return type.
  - (c) Every class must have all types of constructors.
  - (d) A constructor is a member function of a class.
  - (e) Constructor is used to initialize the data members of a class.
  - (f) A constructor may have a different name than the class name.
  - (g) A constructor is likely to be defined after the class declaration.
  - (h) Copy constructor copies function from one object to another.
- 2. Write a program by using a class with the following specifications.
  - (a) Class name Hcf Lcm

Data members/instance variables:

1. int a

2. int b

Member functions:

- 1. Hcflcm(int x, int y) constructor to initialize a=x and b=y.
- 2. void calculate() to find and print hcf and lcm of both the numbers.
- (b) An electronics shop has announced a special discount on the purchase of Laptops as given below:

CATEGORY	DISCOUNT ON LAPTOP		
Up to ₹25,000	5.0%		
₹25,001 - ₹50,000	7.0%		
₹50,001 - ₹1,00,000	10.0%		
More than ₹1,00,000	15.0%		

Define a class Laptop described as follows:

Data members/instance variables:

1. name

2. price

3. dis

4. amt

Member Methods:

- 1. A parameterized constructor to initialize the data members
- 2. To accept the details (name of the customer and the price)
- 3. To compute the discount
- 4. To display the name, discount and amount to be paid after discount.

Write a main method to create an object of the class and call the member methods.

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Grade:	$\mathcal{M}$	$\mathcal{M}$	$\mathcal{M}$	$\mathcal{M}$	$\sim$