Experts' Institute
8-D, Kutchery Road Prayagraj. Ph:9415368884

JAVA Comp. Applications   **Python** Robotics & AI

St. Mary's Convent Inter College, Prayagraj
First Unit Assessment –2024-25

Time :1hr.   **Class- 9**   M.M. : 30
Computer Applications

Name :... Roll No. ....Date :...........................

Q1) Answer the following questions: **[5*2=10]**

   a)   Define Encapsulation.
   b)   What is the difference between scanner functions nextLine() and next()?
   c)   Name the following:
       1) A keyword used to call a package in the program.
       2) A package that contains Scanner class.
   d)   Give the default values of the following primitive data types:
       1) float
       2) boolean
   e)   Evaluate the following expression and find the value of K, if the values of the variables are a = 2, b = 3 and c = 9.
       $K = a + (b ++) * (-- c) \% 3$

Q2) Write a program to input two integers a and b. Interchange / swap values of a and b   with the help of the third variable. Print values of a and b before and after interchange using suitable message.

                                                                                    [5]

Q3) Write a program to input product code (long integer) , price and quantity of the product (in decimals). Calculate total cost, 10% flat discount total cost and the net price to be paid. Print all the data as output.   **[5]**

Q4) Write a program to create a class student to input roll number (integer type), name, class, section and total marks (in decimals) out of 500. Calculate the percentage and print the details.   **[5]**

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Q5) Write a program to create a class volume and perform the related tasks;   [5]

   a) Calculate the volume of a cube using (side*side*side).
   b) Calculate the volume of a cuboid using (length*breadth*height).