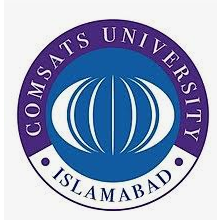
**OBJECT ORIENTED PROGRAMMING**

LAB TASKS 4

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**4) Stage a2 (assess)**

**Assignment:**

**Suppose you operate several hot dog stands distributed throughout town. Define an Encapsulated class named HotDogStand that has an instance variable for the hot dog stand’s ID number and an instance variable for how many hot dogs the stand has sold that day. Create a constructor that allows a user of the class to initialize both values. Also create a method named justSold that increments by one the number of hot dogs the stand has sold. The idea is that this method will be invoked each time the stand sells a hot dog so that you can track the total number of hot dogs sold by the stand. CCS241 –Lab Manual 26 Write a main method to test your class with at least three hot dog stands that each sell a variety of hot dogs. Use get function to display the hot dogs sold for each object.**

**Code**

public class HotDogStand {  
 private int IdNumber;  
 private int Hot\_Dogs\_Sold;  
 private static int *total\_sold* = 0;  
  
 public HotDogStand(){  
 int IdNumber = 0;  
 int Hot\_Dogs\_Sold = 0;  
  
 }  
 public HotDogStand(int IdNumber, int Hot\_Dogs\_Sold){  
 this.IdNumber = IdNumber;  
 this.Hot\_Dogs\_Sold = Hot\_Dogs\_Sold;  
 *total\_sold* += Hot\_Dogs\_Sold;  
 }  
  
 public void setIdNumber(int idNumber){ IdNumber = idNumber; }  
  
 public int getIdNumber(){ return IdNumber; }  
  
 public void setHot\_Dogs\_Sold(int hot\_Dogs\_Sold){ Hot\_Dogs\_Sold = hot\_Dogs\_Sold; }  
  
 public int getHot\_Dogs\_Sold(){ return Hot\_Dogs\_Sold; }  
  
 public void justSold()  
 {  
 Hot\_Dogs\_Sold++;  
 *total\_sold*++;  
 }  
 public static int getTotal\_sold()  
 {  
 return *total\_sold*;  
 }  
  
 public void Display(){  
 System.*out*.println("ID Number: " +IdNumber +"\n" + "Sold Hot Dogs: "+Hot\_Dogs\_Sold);  
 }  
  
  
}

public class Runner12 {  
 public static void main(String[] args) {  
 HotDogStand hot\_dog1 = new HotDogStand(1234, 20);  
 HotDogStand hot\_dog2 = new HotDogStand(5678, 7);  
 HotDogStand hot\_dog3 = new HotDogStand(9876, 14);  
  
 System.*out*.println("Hot Dog 1");  
 hot\_dog1.justSold();  
 hot\_dog1.Display();  
  
 System.*out*.println("Hot Dog 2");  
 hot\_dog2.justSold();  
 hot\_dog2.Display();  
  
 System.*out*.println("Hot Dog 3");  
 hot\_dog3.justSold();  
 hot\_dog3.Display();  
  
 System.*out*.println("\nTotal number of hot dogs sold by all hot dog stands: "  
 + HotDogStand.*getTotal\_sold*());  
  
  
  
 }  
}