## Student Name: Tianle Shu

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## **QESTION-1**

```
//Student Name: Tianle Shu
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//Lecturer: Seamus Hill
package nuig.question1;
import java.text.DecimalFormat;
import java.util.Scanner;
public class ConcertImprove {
   // Declare the totalSale(totally price which is sailed )
   private static double totalSales = 0;
   // and typeNum(the number of the ticket's type)
   // I set equals to 3
   private static int typeNum = 3;
  // Main Method
   public static void main(String[] args) {
     // Set an array of type double -
     // and the length equals to typeNum (3)
     Double[] ticketPrice = new Double[typeNum];
     // Set an array of
     Integer[] seatNum = new Integer[typeNum];
     // Set an array of ticket names
     char[] name = new char[typeNum];
     //for loop
     for (int i = 0; i < typeNum; i++) {
        // Let the type of name begin with A
         name[i] = (char) ('A' + i);
     }//end for loop
     // Access scanner method
     @SuppressWarnings("resource")
     Scanner input = new Scanner(System.in);
```

```
// Create a loop for collecting ticket's information
     //for loop
     for (int i = 0; i < typeNum; i++) {
        System.out.print("Enter number of " + name[i] + "
seats sold: ");
         seatNum[i] = input.nextInt();
         System.out.print("Enter price of " + name[i] + "
tickets: ");
         ticketPrice[i] = input.nextDouble();
     }//end for loop
     // Define DecimalFormat.
     // Reference:
https://docs.oracle.com/javase/7/docs/api/java/text/Decim
alFormat.html
     DecimalFormat df = new DecimalFormat("0.00");
     // output the resulet(ticket informations and the
price)
      System.out.println("\n \t \t Tickets Sold \t Price
per Ticket");
     System.out.println("\t \t ----- \t ------
----");
     // Use for loop to print out the tickets price and
numbre of sales.
     //for loop
     for (int i = 0; i < typeNum; i++) {
   System.out.println(name[i] + " Ticket:\t \t" +</pre>
seatNum[i] + "\t \t" + ticketPrice[i]);
         // Calculator total price of the sailed tickets .
                     = totalSales + seatNum[i]
         totalSales
ticketPrice[i];
     }//end for loop
     // output the result for totally price.and let the
result(total) Take one
     // integer and two decimal places
     System.out.println("\n \t \t Total Sales € " +
df.format(totalSales));
  }// end main method
}//end class
```

## **QESTION-2**

```
//Student Name: Tianle Shu
//Student Id: 19232619
//Lecturer: <u>Seamus</u> Hill
package nuig.question2;
public class BeerSong {
   public static void main(String[] args) {
      //Declare word type is String, and value is bottles
      String word = "bottles";
      //for loop
      for(int beerNum = 99; beerNum > 0;) {
         //once beerNum == 1 , and then word's value is bottle
         if(beerNum == 1) {
             word = "bottle";
         }
         System.out.println(beerNum + " " + word + " of beer
on the wall");
         System. out. println(beerNum + " " + word + " of
beer");
         System.out.println("Take one down.");
         System.out.println("Pass it around.");
         /** ea. --i first calculate then assigned
                i-- first assigned then calculate
          */
         if(--beerNum > 0) {
             if(beerNum == 1) {
                word = "bottle";
                System. out. println(beerNum + " " + word + " of
beer on the wall");
```