

THE STATE UNIVERSITY OF ZANZIBAR SCHOOL OF SOCIAL AND NATURAL SCIENCE DEPARTMENT OF SOCIAL SCIENCE TUNGUU CAMPUS

COURSE CODE: INF 2105

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QUESTION:1

import java.util.Scanner;

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class Student { String
regNo; String name;
float cgpa;
String programName;
String schoolName;
String proctorName;
import java.util.Scanner; public class Main {
public static void main(String[] args) {
Scanner AM = new Scanner(System.in);
System.out.print("Enter number of students: "); int n =
AM.nextInt();
Student[] students = new Student[n];
AM.nextLine();
for (int i = 0; i < n; i++) { students[i] = new
Student();
System.out.print("Enter student reg number "+(i+1)+":") ; students[i].regNo = AM.nextLine() ; \\
System.out.print("Enter name of student" + (i + 1) + ":"); students[i].name = AM.nextLine();
System.out.print("Enter CGPA of student " + (i + 1) + ": ");
students[i].cgpa = AM.nextFloat(); sc.nextLine();
System.out.print("Enter program of student " + (i + 1) + ": "); students[i].programName = AM.nextLine();
\overline{\text{System.out.print}}(\text{"Enter school name of student"} + (i+1) + \text{":"}); students[i].schoolName = AM.nextLine()
System.out.println("Name: " + students[i].name);
System out println("Programme name: " + students[i] programName)
System out println("School name: " + students[i] schoolName
System.out.println("Proctor name: " + students[il.proctorNar
```

if (section == 2) { for (int i = 5; i < 10; i++) { if (!seats[i]) }

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QUESTION:2
import java.util.Scanner;
public class AirlineReservationSystem {
public static void main(String[] args) {
boolean[] seats = new boolean[10];
Scanner KY = new Scanner(System.in);
while (true) {
System.out.println("Please type 1 for First Class or 2 for Economy: ");
int section = KY.nextInt();
if (section == 1) {
for (int i = 0; i < 5; i++) {
if (!seats[i]) {
seats[i] = true;
System.out.println("First Class. Seat number: " + (i + 1));
break;
}
if (i == |4 \&\& seats[i]|) {
System.out.println("First Class is full. Would you like to be placed in Economy? (yes/no)");
String choice = KY.next();
if (choice.equals("yes")) {
section = 2;
} else {
System.out.println("Next flight leaves in 3 hours.");
break;
```

```
seats[i] = true;
System.out.println("Economy Class. Seat number: " + (i + 1));
break;
if (i == 9 \&\& seats[i]) {
System.out.println("Economy Class is full. Would you like to be placed in First Class?
(yes/no)");
String choice =KY.next();
if (choice.equals("yes")) {
section = 1;
} else {
System.out.println("Next flight leaves in 3 hours.");
break;
QUESTION:3
class MathpremearLegue {
int standard; int
numOfStudents; int[]
marks; int firstMark;
```

```
System.out.println("The standard with the highest first mark is: " + maxStandard);
public void findBestClass(int option) {
int maxStandard = 0; int
maxAverage = 0;
int sum; int
iverage,
                4; i++) { sum = 0;}
 or (int j = 0; j < MathpremearLegue[i].numOfStudents; <math>j++) {
sum += MathpremearLegue[i].marks[j];
average = sum / MainpremearLegue[i].numOfStudents; if (average > maxAverage) {
 naxStandard = MathpremearLegue[i].standard; maxAverage = average;
System.out.println("The standard with the highest class average is: " + maxStandard); }
public class Main {
public static void main(String[] args) {
MathpremearLegue] MathpremearLegue = new MathpremearLegue[4]; for (int i = 0; i < 4; i++)
System.out.print("Enter standard: ");
int standard = sc.nextInt();
System.out.print("Enter number of students: ");
int numOfStudents = sc.nextInt();
MathpremearLeguei] = new MathpremearLegue(standard, numOfStudents); }
MathpremearLegue.findBestClass();
MathpremearLegue.findBestClass(1);
```