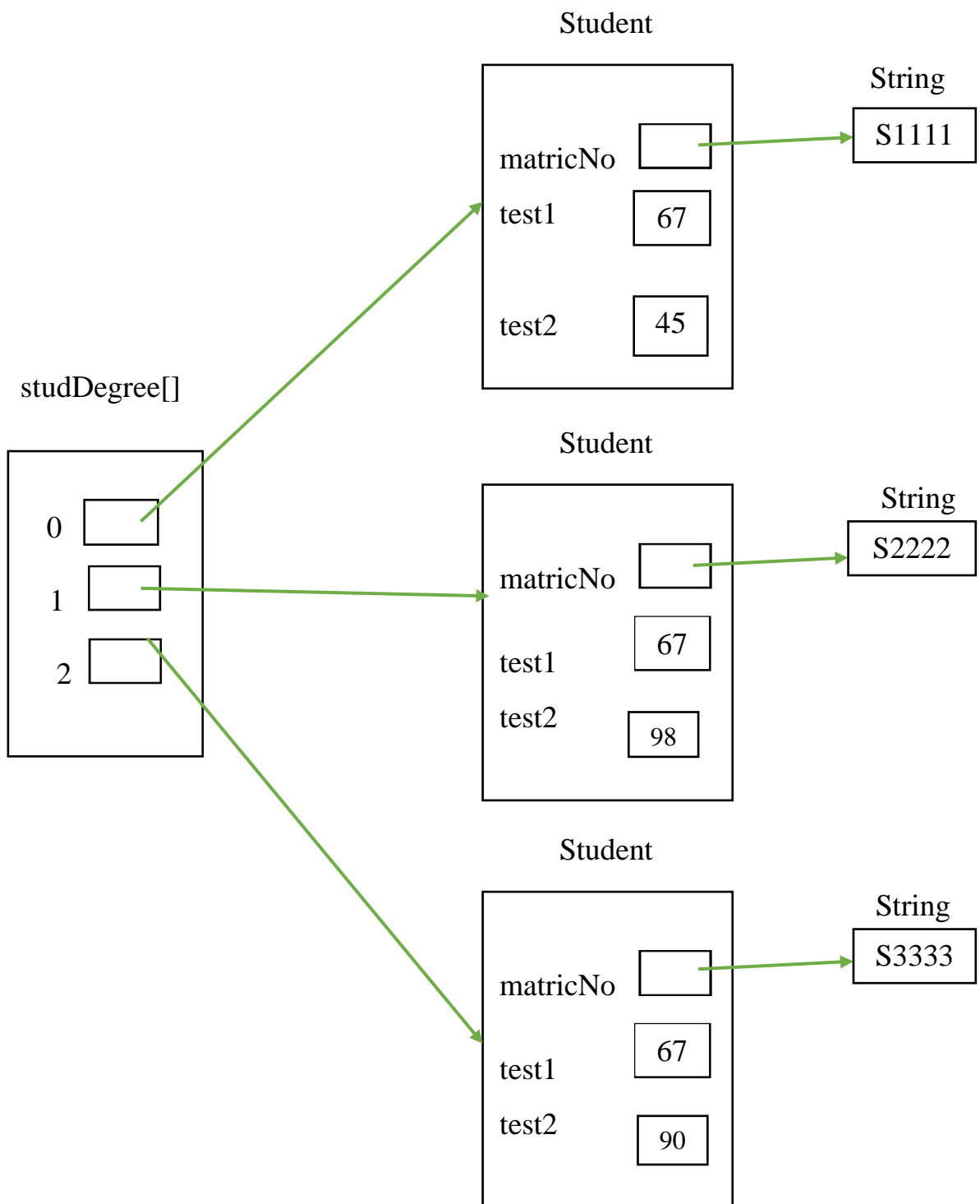EXERCISE 6

TASK 1

a)


```
Output - TestStudent (run)
   run:
   Matric No:s1111
   Test 1:67
   Test 2:45
   Matric No:s2222
   Test 1:67
   Test 2:98
   Matric No:s3333
   Test 1:67
   Test 2:90
   ***********************
      STUDENT INFORMATION
   ***********************
   MatricNo   AverageMark
   s1111      56.00
   s2222      82.50
   s3333      78.50
   BUILD SUCCESSFUL (total time: 1 minute 11 seconds)
```

c)   Draw the UML class diagram for the class Student.

Student (main class/object)
Attribute/ state
-matric no: String
-test1: double
-test2: double
-averageMark: double
Method/Behaviour
+getStudent (String matric, double ts1, double ts2)
+getStudentInfo( ): String
+calculateAverage( ): void

d)

Student

matricNo → String: S1111

test1 67

test2 45

studDegree[]

0

1

2

Student

matricNo → String: S2222

test1 67

test2 98

Student

matricNo → String: S3333

test1 67

test2 90

TASK 2

```
   ----jGRASP exec: java MaxcomApp
Enter the call duration (in minutes):
40
Enter Rate Category:  1.Daytime  2.Evening  3.Off-Peak
2
The amount you have to pay is = RM4.80
Do you want to continue? 1.Yes  2.No
1

Enter the call duration (in minutes):
60
Enter Rate Category:  1.Daytime  2.Evening  3.Off-Peak
1
The amount you have to pay is = RM4.20
Do you want to continue? 1.Yes  2.No
1

Enter the call duration (in minutes):
30
Enter Rate Category:  1.Daytime  2.Evening  3.Off-Peak
3
The amount you have to pay is = RM1.50
Do you want to continue? 1.Yes  2.No
2

Thank you! See you again.

   ----jGRASP: operation complete.
```

TASK 3

```
   ----jGRASP exec: java Average
 *****************************
 Enter the integer 1? :4
 Enter the integer 2? :6
 Enter the integer 3? :8

 The average for 3 integers: 6.00
 Please enter one more integer here: 10
 The average for 4 integers: 7.00
   ----jGRASP: operation complete.
```

TASK 4

```
   ----jGRASP exec: java TestBook
 ***********GET YOUR BOOK NOW*************
  Enter number of books :4
 Title of the book :Introduction to  Java Programming
 Price of the book : RM 89.99
 **************************************
 Title of the book :Data Structure & Algorithm
 Price of the book : RM 79.00
 **************************************
 Title of the book :Programming in Java Language
 Price of the book : RM 80.00
 **************************************
 Title of the book :Computer System Organization
 Price of the book : RM 77.90
 **************************************
 The most expensive book here is: Introduction to  Java Programming of RM89.99
 ---------------------------------------------------------------
 The book(s) with word 'Java' in their title(s):
  - Introduction to  Java Programming
  - Programming in Java Language

   ----jGRASP: operation complete.
```