

Tutorial - Code Coverage Analysis**IT4100 -SQA****Semester 1**

Consider the following snippet from a pseudocode which is used to validate the start/end date of an assignment submission.

```
1. Read startDate, endDate
2. If (startDate >= endDate)
3.   Print ("Invalid time duration")
4.   Abort saving
5. Else
6.   Print ("Assignment dates saved")
7.   Save the dates to DB
8. Endif
9. if (startDate < currentDate)
10. print ("Attention: Start date is in past")
```

Following set of test data are used for testing the above code snippet;

Test data set number	Start Date	End Date
1	12/04/2019	30/04/2019
2	15/04/2019	15/04/2019
3	10/05/2019	25/04/2019

Note: Assume that the date should be given in the following format “dd/mm/yyyy” and that the current date is 10/04/2019.

1. What is the percentage of **statement coverage** achieved by the given test data sets?

2. List an additional test data set to achieve 100% statement coverage.

3. What is the percentage of **decision coverage** achieved by the given test data sets?

4. List an additional test data set to achieve 100% decision coverage.

5. What is the percentage of **path coverage** achieved by the given test data sets?

6. List an additional test data set to achieve 100% path coverage.