ASSIGNMENT 3.

Module Title: Programming Languages and paradigms

Maximum Marks: 30

INSTRUCTIONS:

- This Assignment consists of one section with five questions
- Attempt all questions
- Section B is practical, you will use computer lab3
- Do This questions in your respective groups
- Each group member must attend or participate

NOTES: This assignment will be submitted and be presented on Monday

Question 1.

a)	Briefly describe object oriented programming	[2 mks]
b)	Briefly describe four major features of java programming language.	[2 mks]
c)	Explain Identifiers in java	[2 mks]
d)	Explain the tools you need to run java programs	[2 mks]
e)	With the use of examples describe java exceptions	[2 mks]

Question 2.

- a) Write a java program and show how to store the following values using arrays:
 - **Age** [15, 5, 50, 45, 35, 12, 9, 10]
 - Names [Claudine, Bosco, James, Justine, Pierre, Sylvie]
 - **Telephone-number** [0788828702, 0727755089, 0785983780, 0788557409]
 - **Salary** [5000.50, 4500.65, 1500]

With the above program show how to display some of the values stored in the declared arrays.[4mks]

Question 3.

- a) Write a program to deal with student marks in the following way after the user have entered the marks from the keyboard: [4mks]
 - The time student marks are between 100 and 80, it will display "Excellent"
 - The time student marks are between 79.9and 60, it will display "Satisfaction"
 - The time student marks are between 59.9 and 50, it will display "Pass"
 - The time student marks are below 50, it will display "Totally Failing"
 - The marks should be scanned from the Keyboard

Question 4. Using decision making statements, write a program to display numbers in descending order after you have scanned the starting number[3 mks]

Ouestion 5.

- a) Write a Java program that takes a number as input and prints its addition table up to 35.[4 mks]
- b) Write a Java program to print the sum (addition), multiply, subtract, divide and remainder of two numbers scanned from the keyboard.[5 mks]

Question 6.Write a java program to calculate the factorial of any number scanned by the programmer from the keyboard. [5 mks]