Task1
a) Describe the evolution of modern programming languages.
b) Define API, JDK, IDE, and other key terms related to Java programming.
c) Identify common uses for the Java programming language. (Applications)
d) Define key syntactical elements in Java.
e) Illustrate the difference among syntax, runtime, and logic errors using examples.
f) Write Java programs that take from the user the values of x, n and y and print z=3x*n+5y/2x+3n.
g) Describe the syntax of all selections and loops in the Java programming language.
h) Describe the effect of the Java™ keywords break and continue when used in a loop.
i) Apply Java™ naming conventions to variables, constants, methods, and classes using examples.
j) Predict the behavior of selections and loops using the flowcharts.

Task 2
Write, compile, and execute a simple Java program that prints the string " New Cairo Technological University - Faculty of Industry & Energy Technology- Information and communications technology".
a) Create a programming environment using an IDE and the Java Development Kit. Then, implement the above program in this environment.
b) Implement a java program in 5 ways. This program takes from a user the grades of students in 6 courses to compute the sum of grades for all students (hint the number of students is unknown).

Task 3
Explain the programming style with an Example of Documentation, Vertical Alignment, Comments, Indentation, Meaningful Identifier Names Consistently Typed, and Appropriate use of Typedef with an Example