Chapter one

The first step

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Software

- A computer is not very useful unless we give it some instructions that tell it what to do. This set of instructions is called a program.
- The word Software is the name given to a single program or a set of programs. There are two main kinds of software:
- 1. Application software: such as; word processors, games,...
- 2. System software: such as; Linux, windows, ..

Compiling programs

- The set of instructions written in a programming language is called the program code or source code.
- The language of the computer is often referred to as machine code
- A special piece of system software called a compiler translates the instructions written in a programming language into machine instructions consisting of 0's and 1's. This process is known as compiling.

Programming in java

- The problem with the traditional compiling leads to that the final compiled program is suitable only for a particular type of computer.
- But Java is a Platform Independent.
- Any java program requires the computer it is running on to also be running a special program called a Java Virtual Machine, or JVM.
- This JVM is able to run a Java program for the particular computer on which it is running.
- There is JVM for a PC running Windows; there is JVM for MAC; JVM for mobiles and so on.

Java applications

- 1. Text based (console applications).
- 2. Graphics based (GUI).
- Applet: is a program that is designed to be available over the internet and to run in a browser such as Internet Explorer.

Your first program

Public class Hello ł public static void main (String [] args) System.out.println(" hello world ");

Output in java

- System.out.print("hello world");
- System.out.println("Hello world");
- System.out.println("Hello" + "world");