

Textbook exercise of L-7 Programming Basics

A. Tick the correct answer.

- 1) The direction of flow in any flowchart should be from Top to Bottom.
- 2) The symbol used to indicate input and output of a program is Parallelogram.
- 3) Machine language is directly understood by computer.
- 4) High Level language is machine-independent language.

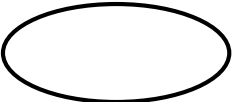

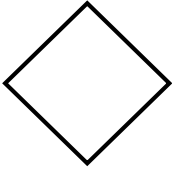
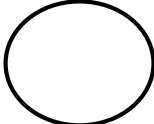
B. State true or false.

- 1) An algorithm is a graphical representation of a flowchart. **False**
- 2) The flowchart helps in finding out errors. **True**
- 3) Decision box is a rectangular symbol used for doing calculations. **False**
- 4) The people who write computer programs are called users. **False**
- 5) An assembly language does not need a translator. **False**

C. Fill in the blanks.

- 1) Flowchart was developed by Herman Goldstine and John Von Neumann.
- 2) The rhombus-shaped symbol is known as Decision Box.
- 3) Natural language is sometimes called Fifth generation language.
- 4) The process of writing a program is called Programming.
- 5) Assembler converts the assembly language program into machine language.

D. Name the following flowchart symbols:

1. 	Start/Stop Box	2. 	Input / Output Box
3. 	Decision Box	4. 	Connectors

E. Define the following:

1. Machine Language:

Machine Language is also called First generation language. It is directly understood by the computer.

2. Assembly Language:

Assembly Language is also called Second generation language. It is not directly understood by the computer, for that we have to use translators.

F. Differentiate between the following:

Compiler	Interpreter
➤ A Compiler converts the entire HLL program into machine language at once.	➤ An Interpreter converts one line of program at a time.
➤ It displays errors of the whole program together.	➤ It displays error of one line at a time and goes to the next line only after correction of the errors.

G. Answer the following questions:

Q:1	What do you mean by Flowchart?
A:1	<ul style="list-style-type: none">• Flowchart is a diagrammatical representation of algorithm.• The direction of flow in a flowchart is always from top to bottom or left to right.
Q:2	What do you mean by computer language?
A:2	<ul style="list-style-type: none">• Computer Language is a special language understood by the computers.• It consists of a set of words, symbols and codes that is used to write a computer program.• It is also known as programming language.
Q:3	What do you understand by HLL?
A:3	<ul style="list-style-type: none">• A high-level language (HLL) has instructions which are almost similar to English language.• It is user-friendly and resembles the language that we use.• It is machine- independent.

H. Application Based Question

Q	Several years ago, a programmer, who is no longer with the company, wrote a program for company using high-level language. Now, his colleague is working on the same program and has discovered that a program is not working. By which software he can detect the errors? Help him.
A	Either by Compiler or Interpreter



ACTIVITY REDRAW:

Redraw the following chart after correcting the symbols.

