**Week 10 (19 Sept 2022 to 25 Sept 2022)**

**Unit 5.2 (Language Translators) Homework**

1) Describe the difference between a compiler and an assembler.

[3 Marks]

1.assembler is assembly language,compiler is high-level language.

2.assembly is machine dependent but compiler is not.

3.assembler has one machine code instruction,one to one translation,

compiler has many machine code instructions,instruction explosion.

2) A new program is to be written in a high-level language. The programmer has decided to use an IDE to develop the new program.

a) State what is meant by an IDE. [1 mark]

An integrated development environment is used by programmers to aid

the writing and development of programs.

b) Describe three features of an IDE.

[6 Marks]

IDE has Source Code Editor,The Debugger and Report Window.

Source Code Editor allows a program to be written and edited without

the need to use a separate text editor.

The Debugger is a program that runs the program source code development and aids the process of debugging.

Report Window shows the contents of variables and expressions evaluated

at that point in the program.