

Section-2

Q. Difference between Process and Program. Explain Context Switching.

Ans.

Basic For Comparison	Program	Process
(i) Basic	Program is a set of instructions	When a program is executed, it is known as process.
(ii) Nature	Passive	Active
(iii) Lifespan	Longer	Limited
(iv) Required Resource	Program is stored on disk in some file and does not require any other resources.	Process hold resources such as CPU, memory address, disk I/O etc.

Context Switching: It is a process of storing the state of a process or thread, so that it can be restored and resume execution at later point. This allow multiple process to share a single CPU and is an essential feature of multitasking OS.