

Operating System- CS604

Assignment # 01

Fall 2011

Marks: 20

Due Date

Your assignment must be uploaded before or on **November 01, 2011**

Uploading instructions:

Please view the **Assignment Submission Process** document provided to you by the Virtual University for uploading assignments.

- Assignment should be in .doc format.
- Save your assignment with your ID (e.g. bx020200786.doc).
- Assignment submission through email is highly discouraged.

Rules for Marking:

It should be clear that your assignment will not get any credit if:

- The assignment is submitted after due date.
- The submitted assignment file is corrupted.
- The assignment is copied.

Note:

Your answer must follow the below given specifications. **You will be assigned zero marks if you do not follow these instructions.**

- Font style: "Times New Roman"
- Font color: "Black"
- Font size: "12"
- **Bold** for heading only.
- Font in *Italic* is not allowed at all.
- No formatting or bullets are allowed to use.

Question # 1:

"Commonly it considered that degree of multiprogramming is affecting CPU utilization and always increase the CPU utilization." In either case "yes" or "no", justify the given statement with strong arguments. Write the answer in your own words.

Question # 1:

Write a program in C language and run it in Linux environment that displays the following results:

- 1. Display the Process ID of the Parent processes**

2. Then execute a `fork()` call
3. If call is successful on `fork()` execution then display the process identifier of the Child process which returned to the Parent process Or Display the Process ID of Child process
4. Show that Process ID of the Parent process does not change before and after `fork()` call.
5. Child process display a message "I AM CHILD PROCESS"
6. Parent process display a message "I AM PARENT PROCESS"