CSE321 Quiz 1

Marks: 10 Time - 20 min

- 1. In a Linux system, the "init" process is responsible for spawning other processes during system startup. You want to run the program "/bin/bash". Mention the steps the OS needs to perform to execute your command. [2]
- 2. Find the output for the following code: [5]

```
#include <sys/types.h>
#include <stdio.h>
#include <unistd.h>
#define SIZE 5
int nums[SIZE] = \{0, -1, 2, -3, 4\};
int main()
  int i;
  pid_t pid;
  pid = fork();
  if (pid == 0)
     for (i = 0; i < SIZE; i++)
       nums[i] *= -nums[i];
       printf("CHILD: %d\n", nums[i]);
  else if (pid > 0)
     wait(NULL);
     for (i = 0; i < SIZE; i++)
       printf("PARENT: %d\n", nums[i])
  printf("Bye\n");
}
```

3. Does a child process start executing from the beginning of its text section? **Explain** your reason. [3]

No. PCB contains the program counter, copied from papent. So, starts from the same next inst. of papent, i.e. next instruction after force.