OPERATING SYSTEMSLab Assignment – 3

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1. Using the process creation check whether it is child or parent to create the process and print the parent and child process ID's (Using C Programming).

```
CODE:-
               #include <stdio.h>
               #include <sys/types.h>
               #include <unistd.h>
               int main()
                pid t pid;
                pid=fork();
                printf("Before FORK - Process ID is %d \n",pid);
                if(fork()<0)
                 printf("The Process is FAILED");
                else if(pid==0)
                 printf("CHILD PROCESS: \n");
                 printf("PID of CHILD is %d \n",getpid());
                 printf("PID of PARENT is %d \n",getppid());
                }
                else
                 printf("PARENT PROCESS: \n");
                 printf("PID of PARENT is %d \n",getpid());
                 printf("PPID of PARENT is %d \n",getppid());
                 printf("PID of CHILD is %d \n",pid);
                return 0;
```

```
srikanth@srikanth-Vostro-15-3568: /mnt/5668922568920441/Third Year/OS/LAB
                                                                         Q
srikanth@srikanth-Vostro-15-3568:/mnt/5668922568920441/Third Year/OS/LAB$ gcc Lab3.c
srikanth@srikanth-Vostro-15-3568:/mnt/5668922568920441/Third Year/OS/LAB$ ./a.out
Before FORK - Process ID is 2580
PARENT PROCESS:
Before FORK - Process ID is 0
PID of PARENT is 2579
PPID of PARENT is 2568
PID of CHILD is 2580
PARENT PROCESS:
PID of PARENT is 2581
PPID of PARENT is 2579
PID of CHILD is 2580
CHILD PROCESS:
PID of CHILD is 2580
PID of PARENT is 2579
CHILD PROCESS:
PID of CHILD is 2582
PID of PARENT is 2580
srikanth@srikanth-Vostro-15-3568:/mnt/5668922568920441/Third Year/OS/LAB$ S
```

2. Print 0-9 Numbers using the process creation

```
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
int main()
{
    int i;
    if(fork()==0)
    {
        for(i=0;i<10;i++)
        {
            printf("%d\n",i);
        }
    }
}
```

