Lab Tasks:

1. For program on page #06, print the process ID of parent and child process and their parent processes plus child process should also print its grandparent process id.

2. Using fork generate the following program where 1 parent and 3 children exit as follows :
   (a) Parent process terminates at last
   (b) First child terminates before parent and after second child.
   (c) Second child terminates after last and before first child.
   (d) Third child terminates first.

3. What is the difference between fork() & exec() system calls?

4. Calculate no. of times hello is printed in the following code by using shell scripting:

```c
#include<stdio.h>
#include<sys/types.h>
int main()
{   for (int i=0; i<5;i++)
    { fork();
      fork();
      fork();}
printf("hello\n");
return 0;
}
```

5. Kill the zombie process of the program on page # 08 by using linux commads i.e without manually inputting pid in kill command.

6. What does exit() system call do? Write two programs for its two different executions.