# MultiProcessing Assignments

1. Refer the code snippet below and answer the queries.

int g\_value =10; /\* global variable \*/

int main()

{

int pid;

int l\_value =5;

printf(“Writing a sample code\n”);

pid = fork(); /\* fork() returns 0 to child process and process id of child to parent process\*/

if(0 == pid)

{

printf(“For child Local variable value=%d\n and global variable value=%d\n”,l\_value,g\_value);

exit(0);

}

else

{

printf(“For parent Local variable value=%d\n and global variable value=%d\n”,l\_value,g\_value);

}

printf(“Code common for both parent process and child process\n);

return 0;

}

1. What will be the output of parent process and child processes?

A screenshot of a computer

Description automatically generated

1. Find out whether the value of local variable and global variable value will be same for both parent process and child process

**Yes , It’s same for both parent and child process**

1. Will the order of execution be same always or could be different? Will it impact the output?

**Order of execution could be different but not impact the output value**

1. Why the first printf() statement will be executed only by parent process and not by child process?

**Because fork() written after first printf() statement**