# MultiProcessing Assignments - 1

Q2.**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?**

Ans:

For child Local variable valued and global variable value are:5 and 10

For Parent Local variable valued and global variable value are:5 and 10

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

Ans: The value of local variable and global variable value will be same for both parent process and child process.

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

Ans: Yes, order of execution depends on which process gets the first thread. Hence it will impact the output as to which process prints first.

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

Ans: Because child process doesn’t exist until then, hence parent process only will print it.