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**SECTION: SE 5-2** 

LAB TASK: 08

**TASK: 01** 

The following program prints process, and parent lds. Execute this program and saved with named lab8task1.JAVA

**ANSWER:** 

```
haseeb@ubuntu64:~$ nano lab8task1.c
haseeb@ubuntu64:~$ gcc lab8task1.c -o lab8task1
haseeb@ubuntu64:~$ ./lab8task1
Process ID: 4382
Parent Process ID: 3252
haseeb@ubuntu64:~$
```

# **STEP:02**

```
GNU nano 6.2 lab8task1.c
#include <stdio.h>
#include <unistd.h>

int main() {
    printf("Process ID: %d\n", getpid());
    printf("Parent Process ID: %d\n", getppid());
    return 0;
}
```

**TASK: 02** 

Run following program and save it with named lab8\_e2.c.

**ANSWER:** 

```
## Total Individual Control of the Individua
```

### **STEP: 02**

```
haseeb@ubuntu64:~$ nano lab8_e2.c
haseeb@ubuntu64:~$ gcc lab8_e2.c -o lab8_e2
haseeb@ubuntu64:~$ ./lab8_e2
Value of X in PID = 4421 is 5
Value of X in PID = 4420 is 5
haseeb@ubuntu64:~$
```

**TASK: 03** 

Run following program and save it with named lab8\_e3.c.

**ANSWER:** 

```
haseeb@ubuntu64: ~
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 GNU nano 6.2
                                       lab8 e3.c *
#include <unistd.h>
#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
int main(void) {
   fork();
    pid_t pid = getpid();
    int i;
    for (i = 1; i <= 200; i++) {
        printf("This line is from PID %d, value = %d\n", pid, i);
   return 0;
```

```
This line is from PID 4453, value = 178
This line is from PID 4453, value = 179
This line is from PID 4453, value = 180
This line is from PID 4453, value = 181
This line is from PID 4453, value = 182
This line is from PID 4453, value = 183
This line is from PID 4453, value = 184
This line is from PID 4453, value = 185
This line is from PID 4453, value = 186
This line is from PID 4453, value = 187
This line is from PID 4453, value = 188
This line is from PID 4453, value = 189
This line is from PID 4453, value = 190
This line is from PID 4453, value = 191
This line is from PID 4453, value = 192
This line is from PID 4453, value = 193
This line is from PID 4453, value = 194
This line is from PID 4453, value = 195
This line is from PID 4453, value = 196
This line is from PID 4453, value = 197
This line is from PID 4453, value = 198
This line is from PID 4453, value = 199
This line is from PID 4453, value = 200
haseeb@ubuntu64:~$
```

#### **TASK: 04**

Write a code in your terminal and compile it and show the output.

### **ANSWER:**

# **STEP: 01**

```
haseeb@ubuntu64:~$ nano lab8_e4.c
haseeb@ubuntu64:~$ gcc lab8_e4.c -o lab8_e4
haseeb@ubuntu64:~$ ./lab8_e4
This is the Child Process (PID: 4874)
Child executing command: ls -l
Parent Process (PID: 4873) waiting for child...
total 168
```

#### **TASK: 05**

Try to implement following code and save your program with named lab8\_e5.c

## **ANSWER:**

## **STEP 02:**

```
haseeb@ubuntu64:~$ nano lab8_e5.c
haseeb@ubuntu64:~$ gcc lab8_e5.c -o lab8_e5
haseeb@ubuntu64:~$ ./lab8_e5
Child Process (PID: 4921) creating a new directory...
Parent Process (PID: 4920) waiting for child...
mkdir: cannot create directory 'newdir': File exists
Parent Process: Child finished.
haseeb@ubuntu64:~$
```