

### **Exp# 1c**

### **exec system call**

#### **Aim**

To load an executable program in a child processes exec system call.

#### **Algorithm**

1. If no. of command line arguments  $\leq 3$  then stop.
2. Create a child process using fork system call.
3. If return value is -1 then
  - a. Print "Process creation unsuccessful"
  - b. Terminate using exit system call.
4. If return value is  $> 0$  then
  - a. Suspend parent process until child completes using wait system call
  - b. Print "Child Terminated".
  - c. Terminate the parent process.
5. If return value is 0 then
  - a. Print "Child starts"
  - b. Load the program in the given path into child process using exec system call.
  - c. If return value of exec is negative then print the exception and stop.
  - d. Terminate the child process.
6. Stop

#### **Result**

Thus the child process loads a binary executable file into its address space.