**Shri G. S. Institute of Technology and Science, Indore**

**Department of Computer Engineering**

**CO 34552 : Operating Systems**

**Lab Assignment- III Part-A**

**Process mgmt system calls**

**Dt. XX.02.2022**

Q1. Write a C program to print the list of files in the current directory using execv and bash shell file

Q2 write a C program that gives a command-line argument to a bash file that adds 2 number and executes it using execl command

Q3 Create a parent process with multiple child where each process child process execute a different file print their output with their process Ids.

Q4 Create a C program that takes the command line argument and create a child process for each argument (let the argument be strings )

### Q5 write a program for wait() system call which makes the parent process wait for the child to finish.

### Q5 write a program for sleep() system call which makes the parent process sleep for 10 seconds for the child to finish.

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**Lab Assignment- III Part-B**

**Process Scheduling**

**Dt. XX.02.2022**

Write C programs to simulate the following CPU scheduling algorithms to find turnaround time and waiting time.

a)FCFS

b)SJF

c)Round Robin(pre-emptive)

d)Priority

e) SRTF