11A)

NAME

execl, execlp, execle, execv, execvp, execvpe - execute a file

DESCRIPTION

The exec() family of functions replaces the current process image with a new process image

The initial argument for these functions is the name of a file that is to be executed.

The const char *arg and subsequent ellipses in the execl(), execlp(), execle() functions can be thought of as arg0, arg1 .... argn. Together they represent one or more pointers to null-terminated strings that represent the argument list available to executed problem.

The execv(), execvp(), execvpe() functions provide an array of pointers to null-terminated strings that represent the argument list available to new program.

The execle(), execvpe() functions allow the caller to specify the environment of executed program via the argument envp. The envp argument is an array of pointers to null terminated strings

and must be terminated by null pointer

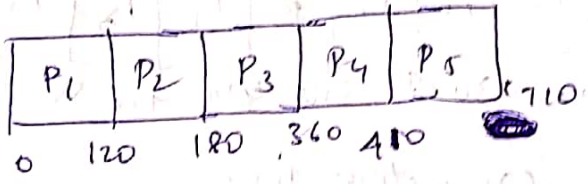
SYNOPSIS

```
int execl ( const char *path, const *args...
                                /*(char *)NULL*/ );

int execv (const char *path, char *const argv[]);

int execvpe(const char *file, char *const argv[],
            char *const envp[]);

int execvp (const char *file, char *const argv[]);

int execlp (const char *path, const *arg, .....
                                /*(char *) NULL*/ );

int execle ( const char *path, const *arg, ....
   /*(char *) NULL*/ , const envp[]);
```

11B (i)

P_1	120
P_2	60
P_3	180
P_4	50
P_5	300

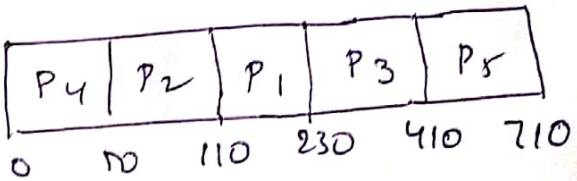
FCFS



completion time:

P_1	120
P_2	180
P_3	360
P_4	410
P_5	710

(ii) SJF

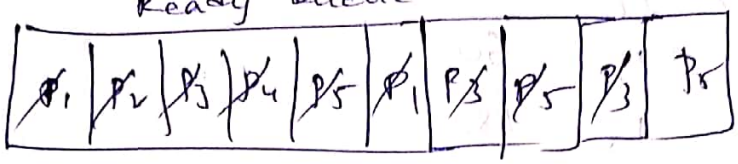


Completion time

P_1	230
P_2	110
P_3	410
P_4	50
P_5	710

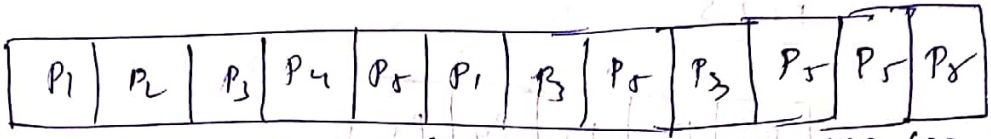
(iii)

Ready Queue



Quantum = 60

Gantt chart



0 60 120 180 230 290 350 410 470 530 590 650 710

	completion time
P_1	350
P_2	120
P_3	530
P_4	230
P_5	710