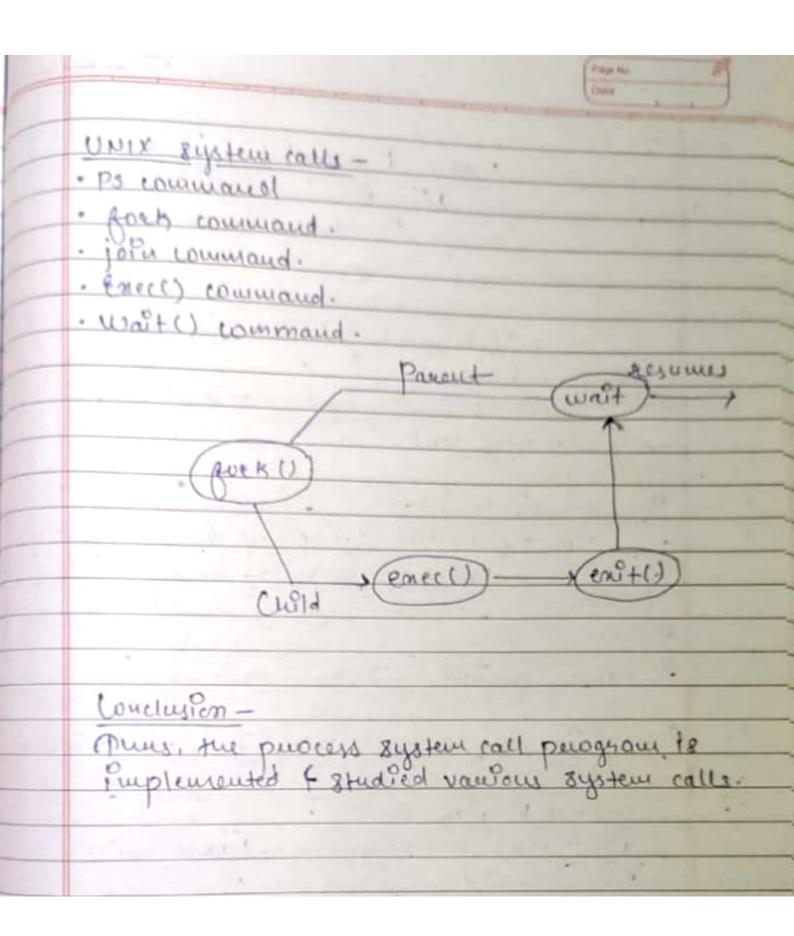
Assignment No-10: Anni- Jurplement UNIX System calls 19ke gog perocess management. Puroblem statement -To waste a perogram to simplement UNIX zystem calle like for process management. Due- nequisites -(1) Explain concepts of system call. Explain state diagram working of new purces Software Requirements -Quantity. Sa No Garlines Magnithed System Ubunter Kylin C Tucho of CICC 5 S/w name Handware Requirements-Objectives -1) To understand Concept of perocess management (3) Juplementation of some system call of 05



Assignment No. 10 [UNIX System Calls]

Problem Satement: To write a program to implement UNIX system calls like for process Management.

1. Code:

Problem Statement: Write a C program to create a child process using fork system call. Display Status of running processes used in child process(EXEC) & terminate child process before completion of parent task(wait).

```
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
#include<sys/types.h>
int main()
{ pid_t pid , ppid , p_status ;
        int status;
        printf("parent process created \n");
        pid = fork();
        if(pid ==0)
                printf("child created succesfull\n");
                printf("child process id: %d \n",
                pid); sleep(10); printf("child after
                sleep \n");
                execlp("/bin/ps", "ps", NULL);
               printf("child terminating\n");
                exit(0);
        else
        { printf("parent still executing"); p_status
                = wait(&status); printf("status:
                %d \n",status); printf("p_status
                :%d \n",p_status); sleep(10);
                printf("parent after sleep\n");
                ppid = getppid();
                printf("parent process id : %d\n",ppid);
               printf("parent terminating\n");
               exit(0);
        return 0;
}
```

OUTPUT:

```
parent process created
child created succesfull
child process id : 0
child after sleep
PID TTY TIME CMD
35599 pts/0 00:00:00 bash
35626 pts/0 00:00:00 a.out
35627 pts/0 00:00:00 ps
parent still executingstatus : 0
p_status :35627
parent after sleep
parent process id : 35599
parent terminating
```