



SURENDRA INSTITUTE OF ENGINEERING & MANAGEMENT, SILIGURI: 734 009

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Signature of the invigilator

LAB Exam ODD SEMESTER 2020-2021

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Dept. :CSE

Subject : Operating System Lab

Paper Code:PCC-CS592

Date:1-4-2021

Signature of Student :Rahul Jha

Max. Marks:..... Date:

Marks obtained : Signature of Examiner

Q3.WAP to Register Single Handler?

Ans:-

```
#include<stdio.h>

#include<unistd.h>

#include<signal.h>

void sig_handler(int signum){

    printf("\nInside handler function\n");

    signal(SIGINT,SIG_DFL); // Re Register signal handler for default action
}

int main(){

    signal(SIGINT,sig_handler); // Register signal handler

    for(int i=1;;i++){ //Infinite loop

        printf("%d : Inside main function\n",i);

        sleep(1); // Delay for 1 second

    }

    return 0;

}
```

```
3  #include<unistd.h>
4  #include<signal.h>
5
4 : Inside main function
5 : Inside main function
6 : Inside main function
7 : Inside main function
8 : Inside main function
9 : Inside main function
10 : Inside main function
11 : Inside main function
12 : Inside main function
13 : Inside main function
14 : Inside main function
15 : Inside main function
16 : Inside main function
17 : Inside main function
18 : Inside main function
19 : Inside main function
^C
Inside handler function
20 : Inside main function
21 : Inside main function
22 : Inside main function
23 : Inside main function
24 : Inside main function
^C
...Program finished with exit code 130
Press ENTER to exit console.□
```

OUTPUT:

Q4. WAP Duplicate Process?

Ans:-> #include <stdio.h>

#include<unistd.h>

#include<sys/types.h>

int main()

{

pid_t p;

printf("before fork\n");

p=fork();

```

        if(p==0)
        {
            printf("I am child having id %d\n",getpid());

            printf("My parent's id is %d\n",getppid());
        }
    else
    {
        printf("My child's id is %d\n",p);

        printf("I am parent having id %d\n",getpid());
    }

    printf("Common\n");
}

```

```

main.c
17     printf("I am parent having
18     }
19     printf("Common\n");
20 }
21

```

```

before fork
My child's id is 122
I am parent having id 121
Common
I am child having id 122
My parent's id is 121
Common

...Program finished with exit code 0
Press ENTER to exit console.

```

Output: