Ex. No.: 4 Date: 12.03.24

SIGNAL CATCHING

Aim:

To write a C program to catch signals used in Linux.

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Program Code:
// signals.c
#include <signal.h>
#include <stdio.h>
void my handler (int sig); /* function prototype */
int main()
       struct sigaction my action;
       /* Part I: Catch SIGINT */
       my action.sa handler = my handler;
       my action.sa flags = SA RESTART;
       sigaction (SIGINT, &my action, NULL);
       printf ("Catching SIGINT\n");
       sleep (3);
       printf (" No SIGINT within 3 seconds\n");
       /* Part II: Ignore SIGINT */
       my action.sa handler = SIG IGN;
       my action.sa flags = SA_RESTART;
       sigaction (SIGINT, &my action, NULL);
       printf ("Ignoring SIGINT\n");
       sleep (3);
       printf (" Sleep is over\n");
       /* Part III: Default action for SIGINT */
       my action.sa handler = SIG DFL;
       my action.sa flags = SA RESTART;
       sigaction (SIGINT, &my action,
       NULL); sleep (3);
       printf ("No SIGINT within 3
seconds\n"); }
void my handler (int sig)
 printf (" \t I got SIGINT, number %d\n",
 sig); exit(0);
```

Output:

Result:

The above program executed successfully and output got verified.