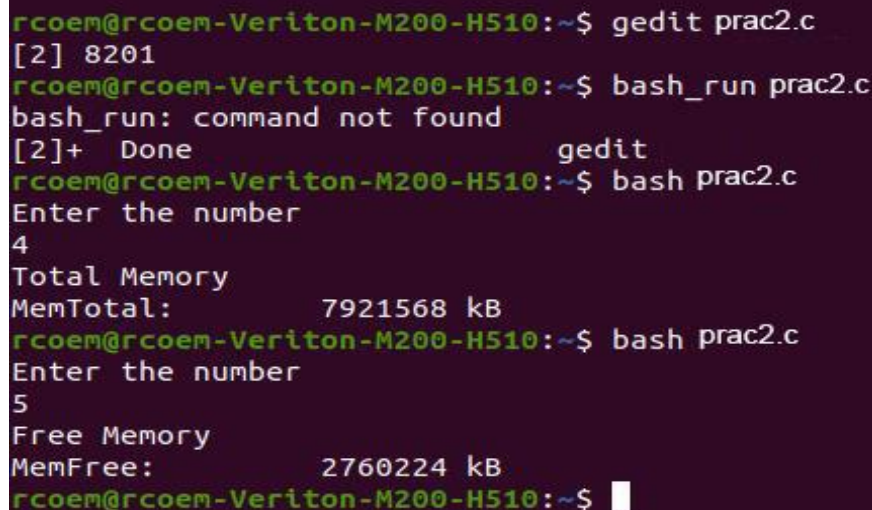## Code

```
echo "Enter the number"
read n
case $n in
1)
echo "cpu processors:"
grep processor /proc/cpuinfo | uniq
;;
2)
echo "No of cores"
grep 'cpu cores' /proc/cpuinfo | uniq
;;
3)
echo "frequency of each processor:"
grep 'cpu MHz' /proc/cpuinfo
;;
4)
echo "Total Memory"
grep 'MemTotal' /proc/meminfo
;;
5)
echo "Free Memory"
grep 'MemFree' /proc/meminfo
;;
6)
echo "No of fork your system have"
vmstat -f
;;
7)
echo "No of cotext switch"
vmstat 1;;
esac
```

OUTPUT

```
rcoem@rcoem-Veriton-M200-H510:~$ gedit prac2.c
[2] 8201
rcoem@rcoem-Veriton-M200-H510:~$ bash_run prac2.c
bash_run: command not found
[2]+  Done                    gedit
rcoem@rcoem-Veriton-M200-H510:~$ bash prac2.c
Enter the number
4
Total Memory
MemTotal:        7921568 kB
rcoem@rcoem-Veriton-M200-H510:~$ bash prac2.c
Enter the number
5
Free Memory
MemFree:         2760224 kB
rcoem@rcoem-Veriton-M200-H510:~$ ▮
```

CODE

```c
#include <unistd.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <fcntl.h>
void prac21(){
        write(1, "Hello World \n", 14);
}
void prac23(){
        int n;
        char arr[14];
        int fd;
        //write(1, "Enter : ", 8);
        //n = read(0, arr, 5);
        //write(1, arr, n);
        fd = open("demo.txt", O_RDONLY);
        n = read(fd, arr, 14);
        write(1, arr, n);
        close(fd);
        //printf("%d\n", n);
}
void prac24(){
        int n;
        char arr[14];
        int fd;
        int fd1;
        fd = open("demo.txt", O_RDONLY);
        fd1 = open("copy.txt", O_CREAT|O_WRONLY, 0642);
        n = read(fd, arr, 14);
        write(fd1, arr, n);
        close(fd);
        close(fd1);
}
void prac25(){
        int n;
        char arr[26];
        int fd;
        fd = open("demo.txt", O_RDONLY);
        lseek(fd, 11, SEEK_SET);
        n = read(fd, arr, 15);
        write(1, arr, n);
        //printf("%d\n", n);
        close(fd);
}
void prac251(){
        int n;
        char arr[10];
        int fd;
        fd = open("demo.txt", O_RDONLY);
        lseek(fd, -10, SEEK_END);
        n = read(fd, arr, 10);
```

```c
        write(1, arr, n);
        //printf("%d\n", n);
        close(fd);
}
void prac252(){
        int n;
        char arr[26], a[1];
        int fd, fd1;
        int j=0;
        fd = open("demo.txt", O_RDONLY);
        for(int i=0;i<28;i++){
                lseek(fd, -i, SEEK_END);
                read(fd, a, 1);
                //printf("%c", a[0]);
                arr[j] = a[0];
                j = j + 1;
        }
        write(1, arr, j);
        //printf("%d\n", n);
        close(fd);
}
int main(){
    prac21();
    printf("\n");
    prac23();
    printf("\n");
    prac24();
    printf("\n");
    prac25();
    printf("\n");
    prac251();
    printf("\n");
    prac252();
        return 0;
}
```

CODE