

OS- PRACTICAL 2

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ROLL = B-30

CODE:

```
#include <stdio.h>
#include <fcntl.h>
#include <errno.h>
#include <unistd.h>
#include <string.h>
#include <sys/types.h>

int main() {
    int s, fd, sz;
    char c1[100];

    do {
        printf("\n1)Create()\n2)Open()\n3)Close()\n4)Read()\n5)Write\n6)Unlink()\n7)Lseek
        ()\n8)Exit\nEnter Choice: ");
        scanf("%d", & s);
        switch (s) {
            case 5:
                fd = open("f1.txt", O_WRONLY | O_CREAT, 0777);
                sz = write(fd, "hi,hello\n", strlen("hi,hello\n"));
                printf("sz=%d\n", sz);
                close(fd);
                break;

            case 4:
                fd = open("f1.txt", O_RDONLY);
                sz = read(fd, c1, 10);
                printf("fd=%d\n", fd);
                printf("sz=%d\n", sz);
                printf("c1=%s\n", c1);
                close(fd);
                break;

            case 1:
                fd = creat("f1.txt", 0777);
                printf("fd=%d\n", fd);
                close(fd);
                break;

            case 2:
                fd = open("f1.txt", O_WRONLY | O_CREAT, 0777);
                printf("fd=%d\n", fd);
```

```

break;

case 3:
    close(fd);
    printf("fd=%d\n", fd);
    break;

case 6:
    close(fd);
    sz = unlink("f1.txt");
    printf("sz=%d\n", sz);
    break;

case 7:
    fd = open("f1.txt", O_RDONLY);
    sz = lseek(fd, -1, SEEK_END);
    char b;
    printf("sz=%d\n", sz);
    for (int i = sz; i >= 0; i--) {
        lseek(fd, i, SEEK_SET);
        read(fd, & b, 1);
        printf("%c", b);
    }
    close(fd);
    break;
}
} while (s != 8);
}

```

OUTPUT:

```
rcoen@rcoen-Verlton-M200-M510:~$ gedit practical2.c
rcoen@rcoen-Verlton-M200-M510:~$ gcc practical2.c -o practical2.out
rcoen@rcoen-Verlton-M200-M510:~$ ./practical2.out

1)Create()
2)Open()
3)close()
4)Read()
5)Write
6)Unlink()
7)Lseek()
8)Exit
Enter Choice: 1
fd=3

1)Create()
2)Open()
3)close()
4)Read()
5)Write
6)Unlink()
7)Lseek()
8)Exit
Enter Choice: 2
fd=3

1)Create()
2)Open()
3)close()
4)Read()
5)Write
6)Unlink()
7)Lseek()
8)Exit
Enter Choice: 5
sz=9

1)Create()
2)Open()
3)close()
4)Read()
5)Write
6)Unlink()
7)Lseek()
8)Exit
Enter Choice: 1
fd=3
```

```
2)Open()  
3)Close()  
4)Read()  
5)Write  
6)Unlink()  
7)Lseek()  
8)Exit  
Enter Choice: 7  
sz=8
```

```
olleh,th  
1)Create()  
2)Open()  
3)Close()  
4)Read()  
5)Write  
6)Unlink()  
7)Lseek()  
8)Exit  
Enter Choice: 4  
fd=4  
sz=9  
c1=hl,hello
```

```
1)Create()  
2)Open()  
3)Close()  
4)Read()  
5)Write  
6)Unlink()  
7)Lseek()  
8)Exit  
Enter Choice: 6  
sz=8
```

```
1)Create()  
2)Open()  
3)Close()  
4)Read()  
5)Write  
6)Unlink()  
7)Lseek()  
8)Exit
```

```
1)Create()  
2)Open()  
3)Close()  
4)Read()  
5)Write  
6)Unlink()  
7)Lseek()  
8)Exit  
Enter Choice: 3  
fd=4
```

```
1)Create()  
2)Open()  
3)Close()  
4)Read()  
5)Write  
6)Unlink()  
7)Lseek()  
8)Exit  
Enter Choice: 8
```

```
rcoen@rcoen-Veriton-H280-H510:~$
```