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EXPERIMENT NO 3

SOURCE CODE

1)

```
#include<stdio.h>
#include<fcntl.h>
#include<errno.h>
 int errno;
int main()
{
int fd = open("foo.txt", O_RDONLY | O_CREAT);
printf("fd = %d/n", fd);
if (fd ==-1) {
printf("Error Number % d\n", errno);
perror("Program");
} return
0;
}
```

OUTPUT

Fd=3

2)**SOURCE CODE**-

```
#include<stdio.h>
#include <fcntl.h>
int main()
{
int fd1 = open("foo.txt", O_RDONLY);
if (fd1 < 0) {
perror("c1");
exit(1);
}
printf("opened the fd = % d\n", fd1);
if (fd1 < 0) {
perror("c1");
exit(1); }
printf("closed the fd.\n");
}
```

OUTPUT

opened the fd = 3 closed
the fd.

3)**SOURCE CODE-**

```
#include<stdio.h>
#include<fcntl.h>
int main()
{
int fd1 = open("foo.txt", O_RDONLY, 0);
close(fd1);
int fd2 = open("baz.txt", O_RDONLY, 0);
printf("fd2 = % d\n", fd2);
exit(0);
}
```

OUTPUT

fd2 = 3

4)**SOURCE CODE**-

```
#include<stdio.h>
#include <fcntl.h>
int main()
{ int fd,
 sz;
char *c = (char *) calloc(100, sizeof(char));
 fd = open("foo.txt", O_RDONLY);
 if (fd < 0) { perror("r1"); exit(1); }
 sz = read(fd, c, 10);
printf("called read(% d, c, 10). returned
that" " %d bytes were read.\n", fd, sz); c[sz]
= '\0';
printf("Those bytes are as follows: % s\n", c);
}
```

OUTPUT

called read(3, c, 10). returned that 10 bytes were read.
Those bytes are as follows: 0 0 0 foo.

5)**SOURCE CODE**-

```
#include<stdio.h>
#include<fcntl.h>
int main()
```

```
{ char c; int fd1 = Open("foobar.txt",
O_RDONLY, 0); int fd2 =
Open("foobar.txt", O_RDONLY, 0);
Read(fd1, &c, 1);
Read(fd2, &c, 1);
printf("c = % c\n",
c); exit(0); }
```

OUTPUT

C=f

6)**SOURCE CODE**-

```
#include<stdio.h>
#include <fcntl.h>
main()
{ int
 sz;

 int fd = open("foo.txt", O_WRONLY | O_CREAT | O_TRUNC,
 0644); if (fd < 0)
 {
   perror("r1")
   ;
    exit(1); } sz = write(fd, "hello geeks\n",
 strlen("hello geeks\n"));

 printf("called write(% d, \"hello geeks\\n\", %d)." "
  It returned %d\n", fd, strlen("hello geeks\n"), sz);

 close(fd);
}
```

OUTPUT

called write(3, "hello geeks\n", 12). it returned 11

7)**SOURCE CODE**-

```
#include<stdio.h>
#include<string.h>
#include<unistd.h>
#include<fcntl.h>
int main (void)
{ int
 fd[2];
```

```
char buf1[12] = "hello world";
char buf2[12];
fd[0]=open("foobar.txt",O_WR) ;
fd[1] = open("foobar.txt", O_RDWR);
write(fd[0], buf1, strlen(buf1));
write(1, buf2, read(fd[1], buf2,
12)); close(fd[0]); close(fd[1]);
return 0;
}
```

OUTPUT

```
hello world
```