

★ PRACTICAL=37 ★

Aim:= A file named data contains series of integer numbers. Write a c program to read all numbers from file and then write all odd numbers into file named “odd” and write all even numbers into file named “even”. Display all the contents of these file on screen.

Filename :=sorting.c

```
#include<stdio.h>
#include<math.h>
void main()
{
FILE *all,*even,*odd;
int number,i,records;
printf("INPUT THE TOTAL NUMBER OF RECORDS THAT U WANT TO ENTER = ");
scanf("%d",& records);
all=fopen("DATA","w");
for(i=1;i<=records;i++)
{
scanf("%d",&number);
if(number== -1)
{
break;
}
putw(number,all);
}
fclose(all);
all=fopen("DATA","r");
even=fopen("EVEN","w");
odd=fopen("ODD","w");
while((number=getw(all))!=EOF)
{
if(number%2==0)
{
putw(number,even);
}
}
```

```
else
{
putw(number,odd);
}
}
fclose(all);
fclose(even);
fclose(odd);
all=fopen("DATA","r");
even=fopen("EVEN","r");
odd=fopen("ODD","r");
printf("\nALL NUMBERS ARE = ");
while((number=getw(all))!=EOF)
{
printf("%d ",number);
}
printf("\nTHE EVEN NUMBERS ARE = ");
while((number=getw(even))!=EOF)
{
printf("%d ",number);
}
printf("\nTHE ODD NUMBERS ARE = ");
while((number=getw(odd))!=EOF)
{
printf("%d ",number);
}
fclose(even);
fclose(odd);
}
```

OUTPUT:

```
INPUT THE TOTAL NUMBER OF RECORDS THAT U WANT TO ENTER = 13
```

```
56  
45  
44  
85  
3  
78  
79  
74  
23  
2  
12  
76  
98
```

```
ALL NUMBERS ARE = 56 45 44 85 3 78 79 74 23 2 12 76 98
```

```
THE EVEN NUMBERS ARE = 56 44 78 74 2 12 76 98
```

```
THE ODD NUMBERS ARE = 45 85 3 79 23
```

```
...Program finished with exit code 0
```

```
Press ENTER to exit console.█
```