

/* 2. Write a C program to find Odd or Even number from a given set of numbers */

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
int a[100], i, n;
```

```
printf("Enter the size of Array:");
```

```
scanf("%d", &n);
```

```
printf("Enter the Elements:");
```

```
for(i=0; i<n; i++)
```

```
{
```

```
scanf("%d", &a[i]);
```

```
}
```

```
printf("Even numbers!!\n");
```

```
for(i=0; i<n; i++)
```

```
{
```

```
if (a[i]%2==0)
```

```
{
```

```
printf("%d\t", a[i]);
```

```
}
```

```
}
```

```
printf("\nOdd numbers!!\n");
```

```
for(i=0; i<n; i++)
```

```
{
```

```
if (a[i]%2!=0)
```

```
{
```

```
printf("%d\t", a[i]);
```

```
}
```

```
}
```

```
return 0;
```

}

The screenshot shows a C++ IDE with a project named "pgm-2 odd or even numbers.cpp". The code in the editor is as follows:

```
1 #include <stdio.h>
2 int main()
3 {
4     int a[100], i, n;
5     printf("Enter the size of Array:");
6     scanf("%d", &n);
7     printf("Enter the Elements:");
8     for(i=0; i<n; i++)
9     {
10        scanf("%d", &a[i]);
11    }
12    printf("Even numbers!!\n");
13    for(i=0; i<n; i++)
14    {
15        if (a[i]%2==0)
16        {
17            printf("%d\t", a[i]);
18        }
19    }
20    printf("\nOdd numbers!!\n");
21    for(i=0; i<n; i++)
22    {
23        if (a[i]%2!=0)
24        {
25            printf("%d\t", a[i]);
26        }
27    }
28    return 0;
29 }
```

The output window shows the following execution results:

```
Enter the size of Array:5
Enter the Elements:6
2
5
8
7
Even numbers!!
6      2      8
Odd numbers!!
5      7
-----
Process exited after 8.635 seconds with return value 0
Press any key to continue . . .
```

The status bar at the bottom indicates "Line: 15 Col: 17 Sel: 0 Lines: 29 Length: 417 Insert Done parsing in 0.031 seconds". The system tray shows the date and time as "9:03 AM 5/5/2023".