

EXPERIMENT 6:

FINDING ODD & EVEN IN ARRAY

CODE:

```
#include <stdio.h>

int main() {
    int a[50];

    int i, n, even = 0, odd = 0;

    printf("Enter the number of elements: ");
    scanf("%d", &n);

    printf("Enter the elements:\n");

    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\n", a[i]);
        }
    }

    printf("Odd numbers:\n");

    for(i = 0; i < n; i++) {
        if(a[i] % 2 != 0) {
            printf("%d\n", a[i]);
        }
    }

    return 0;
}
```

OUTPUT:

The screenshot shows the Dev-C++ IDE with a C++ program that calculates and prints even and odd numbers from an array. The code is as follows:

```
#include <stdio.h>

int main() {
    int arr[50];
    int i,n,even=0,odd=0;
    printf("enter the number of elements :");
    scanf("%d",&n);
    printf("enter %d elements \n",n);
    for(i=0;i<n;i++){
        scanf("%d",&arr[i]);
    }
    printf("even numbers \n ");
    for(i=0;i<n;i++){
        if(arr[i]%2==0){
            printf("%d\n",arr[i]);
        }
    }
    printf("odd numbers \n ");
    for(i=0;i<n;i++){
        if(arr[i]%2!=0){
            printf("%d\n",arr[i]);
        }
    }
    return 0;
}
```

The output window shows the execution results for an input of 6 elements:

```
enter the number of elements :6
enter 6 elements
4
12
9
7
8
6
even numbers
4
12
8
6
odd numbers
9
7
-----
Process exited after 15.29 seconds with return value 0
Press any key to continue . . .
```

The IDE's status bar at the bottom indicates the current position: Line: 23, Col: 13, Set: 0, Lines: 23, Length: 445, Insert, Done parsing in 0.015 seconds.