

Experiment 2: Odd or Even in a Set

Aim:

To find whether numbers in a given set are odd or even.

Algorithm:

1. Start.
2. Input number of elements n.
3. Read array elements.
4. For each element check:
 - If divisible by 2, print Even.
 - Else, print Odd.
5. Stop.

Code:

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

```
int main() {  
    int n, i, num[100];  
    printf("Enter number of elements: ");  
    scanf("%d", &n);  
  
    printf("Enter %d numbers: ", n);  
    for(i = 0; i < n; i++)  
        scanf("%d", &num[i]);  
  
    for(i = 0; i < n; i++) {  
        if(num[i] % 2 == 0)  
            printf("%d is Even\n", num[i]);  
        else  
            printf("%d is Odd\n", num[i]);  
    }  
}
```

```
    return 0;  
}
```

Sample Output:

Enter number of elements: 5

Enter 5 numbers: 10 15 22 33 40

10 is Even

15 is Odd

22 is Even

33 is Odd

40 is Even

Result:

The program correctly checks odd/even for all numbers.

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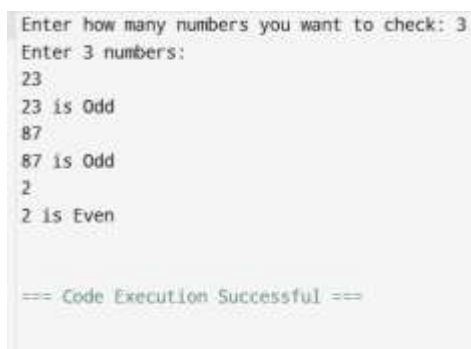
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        printf("%d is Odd\n", num[i]);  
}  
  
return 0;  
}
```

Sample Output:



```
Enter how many numbers you want to check: 3  
Enter 3 numbers:  
23  
23 is Odd  
87  
87 is Odd  
2  
2 is Even  
  
== Code Execution Successful ==
```

Result:

The program correctly checks odd/even for all numbers.