

```
// This program uses a function that returns true or false.
```

```
#include <iostream>
```

```
using namespace std;
```

```
// Function prototype
```

```
bool isEven(int);
```

```
int main()
```

```
{
```

```
    int val;          // the value to be tested
```

```
    // Get a number from the user
```

```
    cout << "Enter an integer and I will tell you ";
```

```
    cout << "if it is even or odd: ";
```

```
    cin >> val;
```

```
    // Indicate whether it is even or odd
```

```
    if (isEven(val))
```

```
        cout << val << " is even.\n";
```

```
    else
```

```
        cout << val << " is odd.\n";
```

```
    system("pause");
```

```
    return 0;
```

```
}
```

```
/* *****
```

```
 *               isEven               *
```

```
 * This Boolean function tests if the integer argument *
```

```
 * it receives is even or odd. It returns true if the *
```

```
 * argument is even and false if it is odd.          *
```

```
 * ***** */
```