Lab 13

Create an array of 1000 **double** datatype elements, store 7.5 times the array slot number as the value in each array slot.

After creating and filling the entire array, ask the user to enter an integer between 0 and 999 – print the value of that element of the array (if the user entered 121 you would print the contents of array slot 121 which would be 907.5).

Input validation: **<u>Do not check out of range values!</u>** (i.e. do NOT do anything that may cause a segmentation fault) Instead inform the user that the value is out of range.

You must use a **named constant** for the array size of 1000.

Example Output:

Test Case 1:

```
Enter an array slot number: <40>

The value in array slot 40 is 300
```

Test Case 2:

```
Enter an array slot number: <0>

The value in array slot 0 is 0
```

Test Case 3:

```
Enter an array slot number: <999>

The value in array slot 999 is 7492.5
```

Test Case 4:

```
Enter an array slot number: <1000>

Value out of range.
```

Test Case 5:

```
Enter an array slot number: <-1>

Value out of range.
```