

**WRITE A PROGRAM TO  
CREATE AN ARRAY OF  
100 ELEMENTS,  
INITIALIZE EACH  
ELEMENT WITH THE  
SAME VALUE (ITS INDEX  
USES). SUM ALL THE  
ARRAY VALUES AND  
PRINT THE SUM.**

```
# include <iostream>
using namespace std;
```

```
int main() {
    int arr[100];
    int i, sum = 0;
    for (i = 0; i < 100; i++) {
        arr[i] = 10;
        sum += arr[i];
    }
    for (i = 0; i < 100; i++) {
        cout << "\narr[" << i << "]: "
<< arr[i];
    }
    cout << "\n The sum is:\t" <<
sum;
}
```