OBJECT ORIENTED PROGRAMMING IN C++ WINTER SEMESTER 2021-22 LAB ASSESSMENT-06

Name: M. DHANUSHRAJ Reg. No: 21BAI10111

Question:

Design a class template by name Vector and perform the following:

- Find the smallest of the element in the Vector.
- Search for an element in the Vector.
- Find the average of the element in the array.

Program:

```
#include <iostream>
#include <vector>
                                                     //NAME: M. DHANUSHRAJ
using namespace std;
                                                      //REG.NO: 21BAI10111.
template<class Vector>
Vector solve(Vector a[], int size, int value)
  Vector smallest = a[0];
  Vector pos;
  Vector total = 0;
  for(int i=0; i<size; i++)
    if (a[i] < smallest)</pre>
       smallest = a[i];
    }
    if (a[i] == value)
       pos = i + 1;
    total += a[i];
  cout<<"The smallest element in the array is: "<<smallest;</pre>
  cout<<endl<<"The element "<<value<<" was found at position: "<<pos;
  cout<<endl<<''The average of the array is: ''<<total/size;</pre>
  return 0;
}
int main()
  int size = 10;
  cout<<"Enter the size of the array:";</pre>
```

Output: