OBJECT ORIENTED PROGRAMMING

ASSIGNMENT NO: 6

Create a class template to represent a generic vector. Include following member functions:

1]To create the vector.

2]To modify the value of a given element.

3]To multiply by a scalar value.

4]To display the vector in the form (10,20,30.....)

Theory:-

Class templates are useful when a class defines something that is independent of data type.

Can be useful for classes like LinkedList, binary tree, Stack, Queue, Array, etc.

Output:

enter size of vector: 4

v[0] = 5

v[1] = 6

v[2] = 7

v[3] = 8

(5,6,7,8)

enter position to make changes :5

Enter new Value :7

(5,6,7,8)

Enter scaler Number to multiply with vector : 4

(20,24,28,32)

enter size of vector: 2

v[0] = 45

v[1] = 45

(45,45)

enter position to make changes :45

Enter new Value :45

(45,45)

Enter scaler Number to multiply with vector : 45

(2025,2025)