Logic Building Assignment : 48

1. Write generic program which accept one value and one number from user. Print that value that number of times on screen.

Input : M 7

Output : M M M M M M M

Input : 11 3

Output : 11 11 11

Input : 3.7 6

Output : 3.7 3.7 3.7 3.7 3.7 3.7

```
template<class T>
void Display(T value, int iSize)
{
        // Logic
}
int main()
{
        Display('M',7);
        Display(11,3);
        Display(3.7,6);
        return 0;
}
```

2. Write generic program to accept N values and count frequency of any specific value.

Input : 10 20 30 10 30 40 10 40 10

Value to check frequency : 10

Output : 4

```
template<class T>
int Frequency(T *arr, int iSize, T iNo)
{
        // Logic
```

```
}
int main()
{
        int arr[]={10,20,30,10,30,40,10,40,10};
        int iRet = Frequency(arr,9,10);
        printf("%d",iRet);// 4
        return 0;
}
```

3. Write generic program to accept N values and search first occurrence of any specific value.

Input : 10 20 30 10 30 40 10 40 10

Value to search : 40

Output : 6

```
template<class T>
int SearchFirst(T *arr, int iSize, T iNo)
{
        // Logic
}
int main()
{
        int arr[]={10,20,30,10,30,40,10,40,10};
        int iRet = SearchFirst(arr,9,40);
        printf("%d",iRet);// 6
        return 0;
}
```

4. Write generic program to accept N values and search last occurrence of any specific value.

Input : 10 20 30 10 30 40 10 40 10

Value to search : 40

Output : 8

```
template<class T>
int SearchLast(T *arr, int iSize, T iNo)
{
	// Logic
}
int main()
{
	int arr[]={10,20,30,10,30,40,10,40,10};
	int iRet = SearchLast(arr,9,40);
	printf("%d",iRet);// 8
	return 0;
}
```

5. Write generic program to accept N values and reverse the contents.

Input : 10 20 30 10 30 40 10 40 10

Output : 10 40 10 40 30 10 30 20 10

```
template<class T>
void Reverse(T *arr, int iSize)
{
	// Logic
}
int main()
{
	int arr[]={10,20,30,10,30,40,10,40,10};
	for(int i=0;i<9;i++)
	{
		cout<<arr[i];	// 10 20 30 10 30 40 10 40 10
	}
	Reverse(arr,9);
```

```
        for(int i=0;i<9;i++)
        {
                cout<<arr[i];     // 10 40    10    40    30    10    30    20    10
        }
        return 0;
}
```