## Logic Building Assignment: 45

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

```
Input:
                     7
Output:
                Μ
                     Μ
                           Μ
                                Μ
                                                Μ
                                           М
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
                       10
                             30
                                   40
                                              40
                                                    10
                 30
                                         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
                                         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
                                      30
                                          40
                                                10
                                10
                                                     40
                                                     20
Output:
                10
                     40 10 40
                                      30
                                           10
                                               30
                                                           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;
}</pre>
```