Logic Building Assignment : 43

Complete below code snippet by writing definitions of below function
1.SearchLast() - Search last occurrence of number
2.EvenCount() - Count even elements
3.OddCount(). - Count odd elements
4.SumAll(). - sum of all elements

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

class Array
{
	protected:
		int *Arr;
		int size;

	public:
		Array(int value = 10)
		{
				cout<<"Inside Connstructor\n";

			this->size = value;
				this->Arr = new int[size];
		}

		 Array(Array &ref)
		{
			cout<<"Inside copy connstructor\n";

			this->size = ref.size;
			 this->Arr = new int[this->size];

			 for(int i = 0;i<size;i++)
			 {
					this->Arr[i] = ref.Arr[i];
			 }
		}

		 ~Array()
		 {
			  cout<<"Inside Destructor\n";

			 delete []Arr;
		 }
```

```
            inline void Accept();
            inline void Display();
};

void Array::Accept()
{
   cout<<"Please enter the values\n";

   for(int i = 0;i<this->size;i++)
   {
      cin>>Arr[i];
   }
}

void Array::Display()
{
   cout<<"Elements are\n";

   for(int i = 0;i<this->size;i++)
   {
      cout<<Arr[i]<<" ";
   }
   cout<<"\n";
}

class ArrSearch : public Array
{
      public:
         ArrSearch(int no = 10) : Array(no)
        {}

        int Frequency(int);
        int SearchFirst(int);
        int SearchLast(int);
        int EvenCount();
        int OddCount();
};

int ArrSearch::SearchFirst(int value)
{
   int i = 0;

   for(i = 0; i < size; i++)
   {
      if(Arr[i] == value)
      {
         break;
```

```
        }
    }

    if(i == size)
    {
        return -1;
    }
    else
    {
        return i + 1;
    }
}
int ArrSearch::Frequency(int value)
{
    int icnt = 0;

    for(int i = 0; i<size; i++)
    {
        if(Arr[i] == value)
        {
            icnt++;
        }
    }

    return icnt;
}

int ArrSearch::SearchLast(int value)
{
        // Logic
}

int ArrSearch::EvenCount()
{
        // Logic
}

int ArrSearch::OddCount()
{
        // Logic
}

int ArrSearch::SumAll()
{
        // Logic
}
```

```
int main()
{
   cout<<"Inside main\n";

   ArrSearch sobj1(5);
   sobj1.Accept();
   sobj1.Display();

   int iret = sobj1.Frequency(11);

   cout<<"Frequency is "<<iret<<"\n";

  iret = sobj1.SearchFirst(11);

   cout<<"First occurance is is "<<iret<<"\n";

    // Call all the above functions

   return 0;
}
```