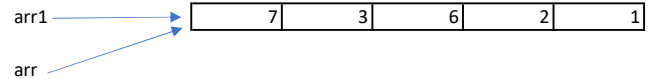```
public static void main(String[] args) {
// TODO Auto-generated method stub
Scanner in =new Scanner(System.in);
int[] arr1=new int[5];
```

Stack        Heap

arr1 ——————→ | | | | | |

---

```
case 1:    ArrayUtiliyClass.acceptArrayElements(arr1);
           break;
```

acceptArrayElements() is invoked and arr1 reference is copied into arr
```
public static void acceptArrayElements(int [] arr)
        {
                Scanner in=new Scanner(System.in);
                for(int i=0;i<arr.length;i++)
                {
                        System.out.println("enter the element:");
                        arr[i]=in.nextInt();
                }
        }
```
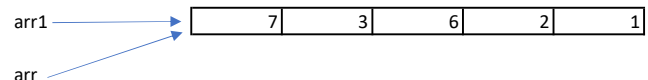
arr1 ——————→ | 7 | 3 | 6 | 2 | 1 |

arr ——————→

```
case 2:    ArrayUtiliyClass.displayArrayElements(arr1);
           break;
```

displayArrayElements() is invoked and the reference arr1 is copied into arr
```
public static void displayArrayElements(int[] arr)
{
        for(int i=0;i<arr.length;i++)
        {
                System.out.println(arr[i]);
        }
}
```

arr1 ——————→ | 7 | 3 | 6 | 2 | 1 |

arr ——————→

```
case 3:    ArrayUtiliyClass.sumOfElements(arr1);
           break;
```

sumOfElements() is invoked and the reference arr1 is copied into arr

```
public static void sumOfElements(int[] arr)
{
        int sum=0;
        for(int i=0;i<arr.length;i++)
        {
                sum+=arr[i];
        }
        System.out.println("the sum of all element "+sum);
}
```

arr1 ——————→ | 7 | 3 | 6 | 2 | 1 |

arr ——————→