

Array Operations

Lecture

By

Engr Fatima Jaffar

Array insertion-insert on first index

```
int arr[]={1,2,3,4,5};  
public int[] insert_on_first(int val){  
    int size=arr.length+1;  
    int arr2[]=new int[size];  
    for(int i=0;i<size;i++){  
        if(i==0){  
            arr2[i]=val;  
        }  
        else{  
            arr2[i]=arr[i-1];  
        }  
    }  
  
    return arr2;  
}
```

Insert value on last index

```
public int[] insert_on_last(int val) {  
    int size=arr.length+1;  
    int arr2[]=new int[size];  
    for(int i=0;i<arr2.length;i++){  
        if(i==arr.length){  
            arr2[i]=val;  
        }  
        else{  
            arr2[i]=arr[i];  
        }  
    }  
    return arr2;  
}
```

Insert at a specific position

```
public int[] insert_pos(int value, int pos) {  
    int size=arr.length+1;  
    int[] arr1 = new int[size];  
    for(int i=size-1;i>pos-1;i--){  
        arr1[i]=arr[i-1];  
    }  
    arr1[pos]=value;  
    for(int j=0; j<pos;j++){  
        arr1[j]=arr[j];  
    }  
    return arr1;  
}
```

Deletion-Delete first element

```
public void delete_first() {  
    int[] arr1=new int[arr.length-1];  
  
    for(int i=1;i<arr.length;i++){  
        arr[i-1]=arr[i];  
    }  
    for(int j=0;j<arr1.length;j++){  
        arr1[j]=arr[j];  
        System.out.print(arr1[j]+" ");  
    }  
}
```

Deletion-Delete Last element

```
public void delete_last() {  
    int arra[]={1,2,3,4,5};  
    int[] arr1=new int[arra.length-1];  
    for(int i=0;i<arr1.length;i++){  
        arr1[i]=arra[i];  
    }  
    for(int j=0;j<arr1.length;j++){  
        System.out.print(arr1[j]+" ");  
    }  
}
```

Deletion-Delete value at specific position