```
Gluick Sout Algorithm
                                          length = 9, low = 0, high = length-1=8
                                          pivot = arr[(low+high)2]. (0+3/2=)9
                @ Arrange left side which is less than fivat.
index → 10w = 0.(1)
                @ Arrange right lid which is greater than pivot
index > h176-8 (h)
Noulder Pivat = 4(P)
           public static int kartikion intants, inthish; Intlocate
               while ( low <=hrsh) }
                  while (arr[low] < PIVUT) {-
                            low++;
                  while(arr[hish] > pirat) { - |
                                                 LOW = 0 (Mdex) = 1 2 3 4 5
                          hsh --;
                                                high: 8 (inden) -7 Gr 543
                                                prod: 12 (value)
low element,  hish element
                 BC bow <= Wahl
                    int temp= arr [low];
                   am [low] = am [wan];
                    arr[Ngh] = temp;
                                                   left side ) wight side
                      low+1',
                                                  17- (low < pi-1) Pi=5-7-
                      Wsh -- ;
                rehm low;
               public Static vaid anickSort
                 (int arr [], int low, int high)?
                 int partition Inden = partition (are, lows high);
                    of ( low < partition Index-1) }
                        anu CicSort (arr, low, Partition Index-1);
                    16 (Pantition Indea < Ngh) }
                        owcksortary, PartitionIndex, high;
```

```
public Stellic vard main(String arsiE] {

int arr [] = {15,9,7;13,12,16,4,18,115;

aucksort (arr, 0, arr, length -1);

brint Array(arr);

}

public Stalic vaid printforag (ini arr []) {

box (Int i: arr) { // treach

Sop(i+");

}
```

```
Covered topic (02-10-2023)

Bauick Sort Algorithm Ascending order

tomorrow topic (03-10-2023)

P merge Sort Algorithm

Beuck Sort Algorithm Descending order.
```