TOPIC: SELECTION SORT AND INSERTION SORT ANALYSIS NAME - MANSHU JAISWAL ROLL NO - 2023IMT-051

```
void insertionSort(int arr[],int n) {
    for (int i = 1; i < n; ++i) {
        int key = arr[i];
        int j = i - 1;
        while (j \ge 0 \sqrt[6]{8} \sqrt[6]{arr[j]}
            arr[j + 1] = arr[j];
Time Complexity: WORST CASE:
0(n^2)
                      BEST CASE:
0(n)
Space Complexity:0(1)
```

```
int main(){
    int arr[] = {9,7,99,10,3,12,34};
    int n = sizeof(arr)/sizeof(int);
    insertionSort(arr,n);
    selectionsort(arr,n);
    for(int i : arr) cout<<i<<" ";
    return 0;
}</pre>
OUTPUT :
3 7 9 10 12 34 99 %
```