

Assignment Day 5

Ayush Vyas

Q1. Write the function for insertion sort.

```
Ans:
void insertion_sort ( int A[ ] , int n)
{
    for( int i = 0 ; i < n ; i++ ) {
        /*storing current element whose left side is checked for its
           correct position .*/

        int temp = A[ i ];
        int j = i;

        /* check whether the adjacent element in left side is greater or
           less than the current element. */

        while( j > 0  && temp < A[ j -1]) {

            // moving the left side element to one position forward.
            A[ j ] = A[ j-1];
            j= j - 1;

        }
        // moving current element to its correct position.
        A[ j ] = temp;
    }
}
```