```
30/12/2020
```

```
int main
Write code for Insertion Sort ?
# include (Stdio.h)
# include (conio.h)
void insertion Sort (int arr[], int n)
     int i, key, j;

tor (i=1; j<n; i++)
         key = arr[i];
         j = @i-1;
while (j>= 0 ll arr[j] > Key)
             arr[j+j] = arr[j];
        arr[j+i] = key;
    void print Array (int arr [7, int n)
         int i;
for (j=0; i<n; i++)
```

```
count << arr[i] << ";
      count << end 1;
   int main ()
    int arr[]= { 12, 11, 13, 5, 6};
    int n= size of (arr) / size of (arr[o]).
    insertion Sort (arrin);
   print Array (arr, n);
   returno;
Output
     5 6 11 12 13.
Time Complexity :- 0(n2)
```

Function definition of insertion Sort It is a simple sorting algorithm

that builds the final sorted list

one item at a time. It is much

less efficient on large lists than

more advanced algorithms such

as quick, merge sort