LAB REPORT

DSA Lab: 5

INSERTION SORT

INPUT: 5 Randomly Generated numbers using arrays.

```cpp
#include<random>
#include<cstdlib>
#include<time.h>
using namespace std;
int main()
{
    int n, j, temp;
    cout<<"\nElements of randomly generated array :\n";
    srand(time(0));
    n=5;
    int arr[n];
    for (int i = 0; i < n; i++)
    {
        arr[i] = rand();
    }
```

OUTPUT: Sorted arrays using Insertion Sort

Example: 1

```
4\bin\gdb.exe     --interpreter=mi

Elements of randomly generated array :
227 28247 28271 2367 18996
Sorted: 227 505 2367 18996 28247
```

Example: 2

```
Elements of randomly generated array :
306 24065 31027 22831 4402
Sorted: 306 356 4402 22831 24065
```