# CSCI3070U: Analysis & Design of Algorithms
## Heapsort Activity

Syed Naqvi
100590852

November 14, 2023

**1)**

Building a heap:

```
Original array:
[ 5 13 2 25 7 17 20 8 4 ]

Heap configuration:
[ 25 13 20 8 7 17 2 5 4 ]
```

**2)**

Sorting array using heapsort:

```
Original array:
[ 5 13 2 25 7 17 20 8 4 ]

Sorted array:
[ 2 4 5 7 8 13 17 20 25 ]
```