Hands On_5 – Min Heap

Working example – INT

```
Choose an option:
1. Initialize custom heap
2. Insert custom element
3. Extract minimum custom element
4. Display custom heap
5. Exit
Enter your choice: 1
Enter space-separated elements to initialize custom heap: 7 3 2 9 5 4 1 5

Choose an option:
1. Initialize custom heap
2. Insert custom element
3. Extract minimum custom element
4. Display custom heap
5. Exit
Enter your choice: 4
Custom Heap: ['1', '3', '2', '5', '5', '4', '7', '9']

Choose an option:
1. Initialize custom heap
2. Insert custom element
3. Extract minimum custom element
4. Display custom heap
5. Exit
Enter your choice: 3
Extracted minimum custom element: 1

Choose an option:
1. Initialize custom heap
2. Insert custom element
3. Extract minimum custom element
4. Display custom heap
5. Exit
```

Working Example – FLOAT

```
Choose an option:
1. Initialize custom heap
2. Insert custom element
3. Extract minimum custom element
4. Display custom heap
5. Exit
Enter your choice: 1
Enter space-separated elements to initialize custom heap: 4.2 7.6 1.3 9.9 5.8 6.3

Choose an option:
1. Initialize custom heap
2. Insert custom element
3. Extract minimum custom element
4. Display custom heap
5. Exit
Enter your choice: 2
Enter element to insert into custom heap: 11.3

Choose an option:
1. Initialize custom heap
2. Insert custom element
3. Extract minimum custom element
4. Display custom heap
5. Exit
Enter your choice: 4
Custom Heap: ['1.3', '5.8', '11.3', '9.9', '7.6', '6.3', '4.2']

Choose an option:
1. Initialize custom heap
2. Insert custom element
3. Extract minimum custom element
4. Display custom heap
5. Exit

Enter your choice:
```

Working Example – Custom datatype/String

```
Choose an option:
1. Initialize custom heap
2. Insert custom element
3. Extract minimum custom element
4. Display custom heap
5. Exit
Enter your choice: 1
Enter space-separated elements to initialize custom heap: g s w a z c r e

Choose an option:
1. Initialize custom heap
2. Insert custom element
3. Extract minimum custom element
4. Display custom heap
5. Exit
Enter your choice: 3
Extracted minimum custom element: a

Choose an option:
1. Initialize custom heap
2. Insert custom element
3. Extract minimum custom element
4. Display custom heap
5. Exit
Enter your choice: 4
Custom Heap: ['c', 'e', 'r', 'g', 'z', 'w', 's']

Choose an option:
1. Initialize custom heap
2. Insert custom element
3. Extract minimum custom element
4. Display custom heap
5. Exit
Enter your choice: 5
```