- **BUBBLE SORT**

```
Welcome to Sorting Algorithms Using Java (Bubble, Selection, Insert & Obeject)

Sorting Algorithms Menu:

        1. Bubble Sort
        2. Selection Sort
        3. Insertion Sort
        4. Object Sort
        0. Exit

Please select a number of the Algorithm for sorting: 1

Please enter 10 random items
Enter 1st item: 00
Enter 2nd item: 44
Enter 3rd item: 77
Enter 4th item: 66
Enter 5th item: 22
Enter 6th item: 55
Enter 7th item: 88
Enter 8th item: 11
Enter 9th item: 99
Enter 10th item: 33

These are the random items you entered:
0, 44, 77, 66, 22, 55, 88, 11, 99, 33
```

Ascending:

```
Order Menu:

        1. Ascending
        2. Descending

How would you like to sort those items: 1

These are the following items sorted in ascending oder:
0, 11, 22, 33, 44, 55, 66, 77, 88, 99

Thank You for using my program...
Best regard from: Shantal Feath M. Pepito BSIT 2B - DAY
Instructed by: O'neil Almondz
BUILD SUCCESSFUL (total time: 42 seconds)
```

Descending:

```
Order Menu:

        1. Ascending
        2. Descending

How would you like to sort those items: 2

These are the following items sorted in descending oder:
99, 88, 77, 66, 55, 44, 33, 22, 11, 0

Thank You for using my program...
Best regard from: Shantal Feath M. Pepito BSIT 2B - DAY
Instructed by: O'neil Almondz
BUILD SUCCESSFUL (total time: 28 seconds)
```

- **SELECTION SORT**

```
Welcome to Sorting Algorithms Using Java (Bubble, Selection, Insert & Obeject)

Sorting Algorithms Menu:

        1. Bubble Sort
        2. Selection Sort
        3. Insertion Sort
        4. Object Sort
        0. Exit

Please select a number of the Algorithm for sorting: 2

Please enter 10 random items
Enter 1st item: 38
Enter 2nd item: 75
Enter 3rd item: 83
Enter 4th item: 26
Enter 5th item: 12
Enter 6th item: 3
Enter 7th item: 90
Enter 8th item: 44
Enter 9th item: 72
Enter 10th item: 15

These are the random items you entered:
38, 75, 83, 26, 12, 3, 90, 44, 72, 15
```

Ascending:

```
Order Menu:

        1. Ascending
        2. Descending

How would you like to sort those items: 1

These are the following items sorted in ascending oder:
3, 12, 15, 26, 38, 44, 72, 75, 83, 90

Thank You for using my program...
Best regard from: Shantal Feath M. Pepito BSIT 2B - DAY
Instructed by: O'neil Almondz
BUILD SUCCESSFUL (total time: 33 seconds)
```

Descending:

```
Order Menu:

        1. Ascending
        2. Descending

How would you like to sort those items: 2

These are the following items sorted in descending oder:
90, 83, 75, 72, 44, 38, 26, 15, 12, 3

Thank You for using my program...
Best regard from: Shantal Feath M. Pepito BSIT 2B - DAY
Instructed by: O'neil Almondz
BUILD SUCCESSFUL (total time: 31 seconds)
```

- **INSERTION SORT**

```
Welcome to Sorting Algorithms Using Java (Bubble, Selection, Insert & Obeject)

Sorting Algorithms Menu:

        1. Bubble Sort
        2. Selection Sort
        3. Insertion Sort
        4. Object Sort
        0. Exit

Please select a number of the Algorithm for sorting: 3

Please enter 10 random items
Enter 1st item: 78
Enter 2nd item: 63
Enter 3rd item: 82
Enter 4th item: 51
Enter 5th item: 7
Enter 6th item: 18
Enter 7th item: 39
Enter 8th item: 41
Enter 9th item: 13
Enter 10th item: 9

These are the random items you entered:
78, 63, 82, 51, 7, 18, 39, 41, 13, 9
```

Ascending:

```
Order Menu:

        1. Ascending
        2. Descending

How would you like to sort those items: 1

These are the following items sorted in ascending oder:
7, 9, 13, 18, 39, 41, 51, 63, 78, 82

Thank You for using my program...
Best regard from: Shantal Feath M. Pepito BSIT 2B - DAY
Instructed by: O'neil Almondz
BUILD SUCCESSFUL (total time: 33 seconds)
```

Descending:

```
Order Menu:

        1. Ascending
        2. Descending

How would you like to sort those items: 2

These are the following items sorted in descending oder:
82, 78, 63, 51, 41, 39, 18, 13, 9, 7

Thank You for using my program...
Best regard from: Shantal Feath M. Pepito BSIT 2B - DAY
Instructed by: O'neil Almondz
BUILD SUCCESSFUL (total time: 35 seconds)
```

- **OBJECT SORT**

```
Welcome to Sorting Algorithms Using Java (Bubble, Selection, Insert & Obeject)

Sorting Algorithms Menu:

        1. Bubble Sort
        2. Selection Sort
        3. Insertion Sort
        4. Object Sort
        0. Exit

Please select a number of the Algorithm for sorting: 4

Please enter 10 random items
Enter information of 1st person :
Name: Shantal
Age: 19
Enter information of 2nd person :
Name: Jayne
Age: 20
Enter information of 3rd person :
Name: Ethel
Age: 21
Enter information of 4th person :
Name: Jennie
Age: 19
Enter information of 5th person :
Name: Cristine
Age: 19
Enter information of 6th person :
Name: Athena
Age: 22
Enter information of 7th person :
Name: Kate
Age: 23

Enter information of 8th person :
Name: Ariadne
Age: 23
Enter information of 9th person :
Name: Joy
Age: 20
Enter information of 10th person :
Name: Crisha
Age: 17

These are the random items you entered:
Shantal, 19
Jayne, 20
Ethel, 21
Jennie, 19
Cristine, 19
Athena, 22
Kate, 23
Ariadne, 23
Joy, 20
Crisha, 17
```

Ascending:

```
Order Menu:

        1. Ascending
        2. Descending

How would you like to sort those items: 1

These are the following items sorted in ascending oder:
Ariadne, 23
Athena, 22
Crisha, 17
Cristine, 19
Ethel, 21
Jayne, 20
Jennie, 19
Joy, 20
Kate, 23
Shantal, 19

Thank You for using my program...
Best regard from: Shantal Feath M. Pepito BSIT 2B - DAY
Instructed by: O'neil Almondz
BUILD SUCCESSFUL (total time: 3 minutes 18 seconds)
```

Descending:

```
Order Menu:

        1. Ascending
        2. Descending

How would you like to sort those items: 2

These are the following items sorted in descending oder:
Shantal, 19
Kate, 23
Joy, 20
Jennie, 19
Jayne, 20
Ethel, 21
Cristine, 19
Crisha, 17
Athena, 22
Ariadne, 23

Thank You for using my program...
Best regard from: Shantal Feath M. Pepito BSIT 2B - DAY
Instructed by: O'neil Almondz
BUILD SUCCESSFUL (total time: 1 minute 6 seconds)
```

- **INVALID CHOICE**

Sorting Algorithm Menu:

```
Welcome to Sorting Algorithms Using Java (Bubble, Selection, Insert & Obeject)

Sorting Algorithms Menu:

        1. Bubble Sort
        2. Selection Sort
        3. Insertion Sort
        4. Object Sort
        0. Exit

Please select a number of the Algorithm for sorting: 6
Invalid choice. Please choose a valid option.

Please select a number of the Algorithm for sorting: 9
Invalid choice. Please choose a valid option.

Please select a number of the Algorithm for sorting: 5
Invalid choice. Please choose a valid option.

Please select a number of the Algorithm for sorting: |
```

Order Menu:

```
Order Menu:

        1. Ascending
        2. Descending

How would you like to sort those items: 6
Invalid order choice. Please enter a valid option.

Order Menu:

        1. Ascending
        2. Descending

How would you like to sort those items: 3
Invalid order choice. Please enter a valid option.

Order Menu:

        1. Ascending
        2. Descending

How would you like to sort those items: 7
Invalid order choice. Please enter a valid option.

Order Menu:

        1. Ascending
        2. Descending

How would you like to sort those items:
```

- **EXIT**

```
Welcome to Sorting Algorithms Using Java (Bubble, Selection, Insert & Obeject)

Sorting Algorithms Menu:

        1. Bubble Sort
        2. Selection Sort
        3. Insertion Sort
        4. Object Sort
        0. Exit

Please select a number of the Algorithm for sorting: 8
Invalid choice. Please choose a valid option.

Please select a number of the Algorithm for sorting: 0
You Exited.

Thank You for using my program...
Best regard from: Shantal Feath M. Pepito BSIT 2B - DAY
Instructed by: O'neil Almondz
BUILD SUCCESSFUL (total time: 10 seconds)
```