```python
# DSL - ASSIGNMENT 5 - B14

def bubbleSort(arr, n):
    index = list(range(1, n + 1))

    for i in range(n):
        for j in range(0, n - i - 1):
            if arr[j] > arr[j+1] :
                arr[j], arr[j+1] = arr[j+1], arr[j]
                index[j], index[j+1] = index[j+1], index[j]

    return index


def selectionSort(arr, n):
    index = list(range(1, n + 1))

    for i in range(n):
        min_idx = i
        for j in range(i + 1, n):
            if arr[min_idx] > arr[j]:
                min_idx = j

        arr[i], arr[min_idx] = arr[min_idx], arr[i]
        index[i], index[min_idx] = index[min_idx], index[i]

    return index


def putdata(arr, n):
    print('\n\nFollowing are the percentages of all the students ... \n')
    print('*******************************')
    print('|    Roll No    |   Percentage    |')
    print('*******************************')

    for i in range(n):
        print(f'|\t{i + 1}\t|\t{arr[i]}%\t |')
    print('——————————————————————— \n\n')


def putsorteddata(arr, n):
    print('\n*******************************')
    print('|    Roll No    |   Percentage    |')
    print('*******************************')

    for i in range(n):
        print(f'|\t{arr[i][0]}\t|\t{arr[i][1]}%\t |')
    print('——————————————————————— \n\n')
```

```python
def main():
    n = int(input('\nEnter number of student in 1st year: '))
    arr = []

    for i in range(n):
        arr.append(int(input(f'Enter percentage of roll no {i + 1}: ')))

    putdata(arr, n)
    arr2 = arr[:]
    n = len(arr)

    print('Sorting all the percentages using Bubble Sort:')
    index = bubbleSort(arr, n)
    putsorteddata(list(zip(index, arr)), n)

    print('Sorting all the percentages using Selection Sort:')
    index = selectionSort(arr2, n)
    putsorteddata(list(zip(index, arr2)), n)


if __name__ == "__main__":
    main()
```

"""

───────────────────── OUTPUT ─────────────────────

Following are the percentages of all the students...

```
**********************************
|      Roll No     |      Percentage     |
**********************************
|         1        |          85%        |
|         2        |          82%        |
|         3        |          77%        |
|         4        |          91%        |
|         5        |          89%        |
|         6        |          45%        |
|         7        |          62%        |
|         8        |          73%        |
|         9        |          99%        |
|         10       |          95%        |
_____
```

Sorting all the percentages using Bubble Sort:

```
**********************************
|      Roll No     |      Percentage     |
**********************************
|         6        |          45%        |
|         7        |          62%        |
|         8        |          73%        |
|         3        |          77%        |
|         2        |          82%        |
|         1        |          85%        |
|         5        |          89%        |
|         4        |          91%        |
|         10       |          95%        |
|         9        |          99%        |
_____
```

Sorting all the percentages using Selection Sort:

```
*********************************
|     Roll No     |   Percentage   |
*********************************
|        6        |      45%       |
|        7        |      62%       |
|        8        |      73%       |
|        3        |      77%       |
|        2        |      82%       |
|        1        |      85%       |
|        5        |      89%       |
|        4        |      91%       |
|        10       |      95%       |
|        9        |      99%       |

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```

"""