Python Exercises

Exercise 1:

Please enter your name: Nigel
Hello, Nigel. Welcome to this program!
PS C:\Users\R O G S T R I X\Desktop\Files\DICS\T
y\Programming in Security (Python)\PSEC> [

Exercise 2:

Hello World, this is my first exercise in Python!
PS C:\Users\R O G S T R I X\Desktop\Files\DICS\Ter
y\Programming in Security (Python)\PSEC> []

Practical 1Q1:

Please enter the length of the square: 4
The Area of the square is: 16
The Perimeter of the square is: 16
PS C:\Users\R O G S T R I X\Desktop\Files\DICS\Te
y\Programming in Security (Python)\PSEC> []

Practical 1Q2:

Please enter your weight in kilograms: 76
Please enter your height in meters: 173
Your BMI is: 0.00254
PS C:\Users\R O G S T R I X\Desktop\Files\DICS\Ter
y\Programming in Security (Python)\PSEC> [

Practical 2Q1:

Practical 2Q2:

Practical 2Q3:

Practical 2Q4:

Practical 2Q5:

Practical 2Q6Increment (Using try-catch):

Practical 2Q7:

```
************
1. Determine odd or even
2. Determine bigger number
3. Find sum of numbers
4. Display even numbers
*************
Enter a choice: 2
Enter a number: 3
Enter another number: 3
3 and 3 are the same!
*************
ST2414 PSEC Practical 2 Qn 7
1. Determine odd or even
2. Determine bigger number
3. Find sum of numbers
Enter a choice: []
```

Practical 3Additional:

```
Yes, we serve the following:

1. Kimchi Fried Rice
Enter the dish 1-1 that you would like to order, or 0 to stop: 1

1 added
Enter the dish 1-1 that you would like to order, or 0 to stop: 1

1 added
Enter the dish 1-1 that you would like to order, or 0 to stop: 0

You have ordered ['Kimchi Fried Rice', 'Kimchi Fried Rice']

Please input food to search: Hot Dog
Sorry, we don't serve Hot Dog!
Pls choose from ['Beef Curry', 'Curry Prata', 'Kimchi Fried Rice', 'Katsu Curry']

Please input food to search: Beef Curry
Yes, we serve the following:

1. Beef Curry
Enter the dish 1-1 that you would like to order, or 0 to stop: 1

1 added
Enter the dish 1-1 that you would like to order, or 0 to stop: 1

1 added
Enter the dish 1-1 that you would like to order, or 0 to stop: 0
You have ordered ['Kimchi Fried Rice', 'Kimchi Fried Rice', 'Beef Curry', 'Beef Curry']
```

Practical 3Q1String:

Please input food to search:

```
Please enter ports that were found to be open '|'
23
Please input port number for your 'service': 443
Sorry, port 443 is closed! Pls choose from ['23']
```

Practical 3Q2String:

```
Please enter your restaurant dishes, separated by comma ','
Fried Rice, Pasta, Salad, Lamb Chop
Please input food to search: Chicken Rice
Sorry, we don't serve Chicken Rice!
Pls choose from ['Fried Rice', ' Pasta', ' Salad', ' Lamb Chop']
```

Practical 3Q3Marks:

```
The 10 students scored [80, 39, 79, 81, 79, 70, 84, 57, 66, 86].

Scores that qualify for 'A' grade are:

80

81

84

86

a) Marks in ascending order: [39, 57, 66, 70, 79, 79, 80, 81, 84, 86]

b) Marks in descending order: [86, 84, 81, 80, 79, 79, 70, 66, 57, 39]

c) Highest Mark: 86

d) Lowest Mark: 39

e) Index(es) of students who failed: 1
```

Practical 3Q4MESS:

```
+++ Welcome to the Marks Entry Simple System (MESS) +++
Current marks for 10 students stored in system.

[88, 74, 69, 90, 42, 79, 66, 73, 100, 99]

1. Entry of marks to the MESS

2. Display the maximum mark in the MESS

3. Display the marks sorted in ascending order

4. Display a subset of marks in the MESS

Pls choose 1-4 or press ENTER to quit: 1

pls enter marks for student 1 or -1 to end: 87

pls enter marks for student 2 or -1 to end: 75

pls enter marks for student 3 or -1 to end: 75

pls enter marks for student 4 or -1 to end: 45

pls enter marks for student 5 or -1 to end: 48

pls enter marks for student 6 or -1 to end: 89

pls enter marks for student 7 or -1 to end: 93

pls enter marks for student 8 or -1 to end: 68

pls enter marks for student 9 or -1 to end: 79

pls enter marks for student 10 or -1 to end: 97

pls enter marks for student 11 or -1 to end: 0

pls enter marks for student 11 or -1 to end: 0

pls enter marks for student 12 or -1 to end: -1

Invalid input! Pls enter a valid integer from 0-100.
```

```
+++ Welcome to the Marks Entry Simple System (MESS) +++
Current marks for 11 students stored in system.

[87, 86, 75, 45, 48, 89, 93, 68, 79, 97, 0]
1. Entry of marks to the MESS
2. Display the maximum mark in the MESS
3. Display the marks sorted in ascending order
4. Display a subset of marks in the MESS

Pls choose 1-4 or press ENTER to quit: 2
Highest Mark: 97

+++ Welcome to the Marks Entry Simple System (MESS) +++
Current marks for 11 students stored in system.

[87, 86, 75, 45, 48, 89, 93, 68, 79, 97, 0]
1. Entry of marks to the MESS
2. Display the maximum mark in the MESS
3. Display the marks sorted in ascending order
4. Display a subset of marks in the MESS

Pls choose 1-4 or press ENTER to quit: 3
Marks in ascending order: [0, 45, 48, 68, 75, 79, 86, 87, 89, 93, 97]

+++ Welcome to the Marks Entry Simple System (MESS) +++
Current marks for 11 students stored in system.

[87, 86, 75, 45, 48, 89, 93, 68, 79, 97, 0]
1. Entry of marks to the MESS
2. Display the maximum mark in the MESS
3. Display the maximum mark in the MESS
3. Display the maximum mark in the MESS
4. Display a subset of marks in the MESS
5. Display the maximum mark in the MESS
6. Display the maximum mark in the MESS
7. Display a subset of marks in the MESS
8. Display the maximum mark in the MESS
9. Pls choose 1-4 or press ENTER to quit: 4

The current set of marks stored in system is
[87, 86, 75, 45, 48, 89, 93, 68, 79, 97, 0]
Pls choose how you want to edit the list:
1. Splice the list
2. Remove a mark from the list
3. Change a mark
4. Add new marks
Pls choose how you want to edit the list:
[]
```