Exercise 1: Calculate the multiplication and sum of two numbers

Given two integer numbers, return their product only if the product is equal to or lower than 1000. Otherwise, return their sum.

Given 1:

```
number1 = 20
number2 = 30
```

Expected Output:

```
The result is 600
```

Given 2:

```
number1 = 40
number2 = 30
```

Expected Output:

```
The result is 70
```

Exercise 2: Print the sum of the current number and the previous number.

Write a program to iterate the first 10 numbers, and in each iteration, print the sum of the current and previous number.

Expected Output:

```
Printing current and previous number sum in a range(10)
Current Number 0 Previous Number  0  Sum:  0
Current Number 1 Previous Number  0  Sum:  1
Current Number 2 Previous Number  1  Sum:  3
Current Number 3 Previous Number  2  Sum:  5
Current Number 4 Previous Number  3  Sum:  7
Current Number 5 Previous Number  4  Sum:  9
Current Number 6 Previous Number  5  Sum:  11
Current Number 7 Previous Number  6  Sum:  13
Current Number 8 Previous Number  7  Sum:  15
Current Number 9 Previous Number  8  Sum:  17
```

Exercise 3: Print characters from a string that are present at an even index number

Write a program to accept a string from the user and display characters that are present at an even index number.

For example, `str = "pynative"` so you should display 'p', 'n', 't', 'v'.

Expected Output:

```
Orginal String is  pynative
Printing only even index chars
p
n
t
v
```

Exercise 4: Check if the first and last number of a list is the same

Given:

```
numbers_x = [10, 20, 30, 40, 10]
numbers_y = [75, 65, 35, 75, 30]
```

Expected Output:

```
Given list: [10, 20, 30, 40, 10]
result is True

numbers_y = [75, 65, 35, 75, 30]
result is False
```

Exercise 5: Display numbers divisible by 5 from a list

Iterate the given list of numbers and print only those numbers which are divisible by 5.

Expected Output:

```
Given list is  [10, 20, 33, 46, 55]
Divisible by 5
10
20
55
```

Exercise 6: Print the following pattern

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

Exercise 7: Check Palindrome Number.

A palindrome number is a number that is the same after reverse. For example, 545, is the palindrome numbers

Expected Output:

```
original number 121
Yes. given number is palindrome number

original number 125
No. given number is not palindrome number
```

Exercise 8: Create a new list from two list using the following condition.
Given two list of numbers, write a program to create a new list such that the new list should contain odd numbers from the first list and even numbers from the second list.

Given:

```
list1 = [10, 20, 25, 30, 35]
list2 = [40, 45, 60, 75, 90]
```

Expected Output:

```
result list: [25, 35, 40, 60, 90]
```

Exercise 9: Print a downward Half-Pyramid Pattern of Star (asterisk)

```
* * * * *
* * * *
* * *
* *
*
```

Exercise 10: Print multiplication table from 1 to 10

```
1  2 3 4 5 6 7 8 9 10
2  4 6 8 10 12 14 16 18 20
3  6 9 12 15 18 21 24 27 30
4  8 12 16 20 24 28 32 36 40
5  10 15 20 25 30 35 40 45 50
6  12 18 24 30 36 42 48 54 60
7  14 21 28 35 42 49 56 63 70
8  16 24 32 40 48 56 64 72 80
9  18 27 36 45 54 63 72 81 90
10 20 30 40 50 60 70 80 90 100
```