Assignment-12(Lambda)

1> Write a Python program to create a function that takes one argument, and that argument will be multiplied with an unknown given number.
Sample Output:
Double the number of 15 = 30
Triple the number of 15 = 45
Quadruple the number of 15 = 60
Quintuple the number 15 = 75

2> Write a Python program to sort a list of tuples using Lambda.
Original list of tuples:
[('English', 88), ('Science', 90), ('Maths', 97), ('Social sciences', 82)]
Sorting the List of Tuples:
[('Social sciences', 82), ('English', 88), ('Science', 90), ('Maths', 97)]

3> Write a Python program to sort a list of dictionaries using Lambda.
Original list of dictionaries :
[{'make': 'Nokia', 'model': 216, 'color': 'Black'}, {'make': 'Mi Max', 'model': '2', 'color': 'Gold'}, {'make': 'Samsung', 'model': 7, 'color': 'Blue'}]
Sorting the List of dictionaries :
[{'make': 'Nokia', 'model': 216, 'color': 'Black'}, {'make': 'Samsung', 'model': 7, 'color': 'Blue'}, {'make': 'Mi Max', 'model': '2', 'color': 'Gold'}]

4> Write a Python program to filter a list of integers using Lambda.
Original list of integers:
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
Even numbers from the said list:
[2, 4, 6, 8, 10]
Odd numbers from the said list:
[1, 3, 5, 7, 9]

5> Write a Python program to square and cube every number in a given list of integers using Lambda.
Original list of integers:
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
Square every number of the said list:
[1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
Cube every number of the said list:
[1, 8, 27, 64, 125, 216, 343, 512, 729, 1000]

6> Write a Python program to create Fibonacci series upto n using Lambda.

Fibonacci series upto 2:
[0, 1]
Fibonacci series upto 5:
[0, 1, 1, 2, 3]
Fibonacci series upto 6:
[0, 1, 1, 2, 3, 5]
Fibonacci series upto 9:
[0, 1, 1, 2, 3, 5, 8, 13, 21]