Assignment



Q1. Create a python program to sort the given list of tuples based on integer value using a lambda function.

[('Sachin Tendulkar', 34357), ('Ricky Ponting', 27483), ('Jack Kallis', 25534), ('Virat Kohli', 24936)]

Ans.

```
lists = [('Sachin Tendulkar', 34357), ('Ricky Ponting', 27483), ('Jack Kallis', 25534), ('Virat Kohli', 24936)]
lists.sort(key=lambda x :x[1], reverse=False)
lists
Output:
[('Virat Kohli', 24936),
    ('Jack Kallis', 25534),
    ('Ricky Ponting', 27483),
    ('Sachin Tendulkar', 34357)]
```

Q2. Write a Python Program to find the squares of all the numbers in the given list of integers using lambda and map functions.

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

Ans.

List=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10] list(map(lambda x : x**2,List))

OUTPUT:

[1, 4, 9, 16, 25, 36, 49, 64, 81, 100]

Q3. Write a python program to convert the given list of integers into a tuple of strings. Use map and lambda functions

```
Given String: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
Expected output: ('1', '2', '3', '4', '5', '6', '7', '8', '9', '10')
```

Answer.

tuple(map(lambda x: str(x),String))

OUTPUT:

('1', '2', '3', '4', '5', '6', '7', '8', '9', '10')

Q4. Write a python program using reduce function to compute the product of a list containing number	ers
from 1 to 25.	

Answer.

Lists=[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25]
from functools import reduce
reduce(lambda x,y: x*y, Lists)

OUTPUT:

15511210043330985984000000

Q5. Write a python program to filter the numbers in a given list that are divisible by 2 and 3 using the filter function.

[2, 3, 6, 9, 27, 60, 90, 120, 55, 46]

Answer:

list(filter(lambda x: (x%2==0) and (x%3==0), seq))

OUTPUT

[6, 60, 90, 120]

Q6. Write a python program to find palindromes in the given list of strings using lambda and filter function.

['python', 'php', 'aba', 'radar', 'level']

Answer:

list(filter(lambda s: (s == s[::-1]), test))

Output:

['php', 'aba', 'radar', 'level']