

4thfeb_assignment

February 14, 2023

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)]

```
[6]: players= [("Sachine Tendulkar", 34357), ("Ricky Ponting", 27483), ("Jack_Kallis", 25534), ("Virat Kohli", 24936)]
Sort_players = sorted(players, key=lambda x: x[1] )
print(Sort_players)
```

```
[('Virat Kohli', 24936), ('Jack Kallis', 25534), ('Ricky Ponting', 27483), ('Sachine 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]

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

```
[7]: [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’)

```
[8]: l1=[1,2,3,4,5,6,7,8,9,10]
list(map(lambda x : str(x), l1 ))
```

```
[8]: ['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 numbers from 1 to 25.

```
[10]: from functools import reduce
l2= range(1,26)
(reduce (lambda x ,y : x*y ,l2))
```

```
[10]: 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]

```
[14]: 13= [2,3,6,9,27,60,90,120,55,46]
list(filter(lambda x : x% 2 ==0 and x%3 ==0 , 13))
```

```
[14]: [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']

```
[17]: 14= ["python", "php", "aba", "radar", "level"]
list(filter(lambda x : x == x[::-1], 14))
```

```
[17]: ['php', 'aba', 'radar', 'level']
```

```
[ ]:
```