Untitled3

April 8, 2023

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

[ ]:
```
l=[('Sachin Tendulkar', 34357), ('Ricky Ponting', 27483), ('Jack Kallis',␣
↪25534), ('Virat Kohli', 24936)]
```

[55]:
```
list(filter(lambda x: x==int ,l))
```

[55]:
```
[]
```

[ ]:
```

```

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

[19]:
```
l1=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

[20]:
```
list(map(lambda x : x**2,l1))
```

[20]:
```
[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

[25]:
```
l3 = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

[26]:
```
tuple(map(lambda x: str(x),l3))
```

[26]:
```
('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.

[28]:
```
l4=[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]
```

[29]:
```
from functools import reduce
```

[31]:
```
reduce(lambda x,y : x*y,l4)
```

[31]:
```
155112100433309859840000000
```

[ ]:
```

```

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

[33]:
```
l6=[2, 3, 6, 9, 27, 60, 90, 120, 55, 46]
```

[36]:
```
list(filter(lambda x : x %2==0 ,l6))
```

[36]:
```
[2, 6, 60, 90, 120, 46]
```

[39]:
```
list(filter(lambda x : x %3==0 ,l6))
```

[39]:
```
[3, 6, 9, 27, 60, 90, 120]
```

[40]:
```
list(filter(lambda x : x %2==0 and x%3==0,l6))
```

[40]:
```
[6, 60, 90, 120]
```

[ ]:
```

```

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

[42]:
```
l7=['python', 'php', 'aba', 'radar', 'level']
```

[50]:
```
list(filter(lambda x: (x == "".join(reversed(x))),l7))
```

[50]:
```
['php', 'aba', 'radar', 'level']
```

[ ]:
```

```

[ ]:
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[ ]:
```

```

[ ]:
```

```