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# 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)]

#Answer :-

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

sorted_l = sorted(l, key=lambda x: x[1])

l3 = []
for name, score in sorted_l:
    l3.append((name, score))

print(l3)
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[('Virat Kohli', 24936), ('Jack Kallis', 25534), ('Ricky Ponting', 27483), ('Sachin Tendulkar', 34357)]
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# 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,

# Answer :-

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

sq_value1 = list(map(lambda x : x ** 2 , l))
print(sq_value1)
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[1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
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# 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 :-

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

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

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

# Answer :-
from functools import reduce
l = []
for i in range(1,26):
  l.append(i)

print(l)

value = reduce(lambda x,y : x * y, l)
print(value)
```

```
[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]
15511210043330985984000000
```

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# 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 :-

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

filtered_list = list(filter(lambda x : (x % 2 == 0 or x % 3 == 0),l))
print(filtered_list)
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[2, 3, 6, 9, 27, 60, 90, 120, 46]
```

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# Q6. Write a python program to find palindromes in the given list of strings using lambda and filter function.
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# ['python', 'php', 'aba', 'radar', 'level']

# Answer :-

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

palindromic_list = list(filter(lambda x : x[::-1] == x,l))
print(palindromic_list)
```

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

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Start coding or generate with AI.
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