In [ ]:
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AAIGNMENT- 4TH FEB
```

Sort a list of tuples based on integer value using a lambda function

In [1]:
```
data = [('Sachin Tendulkar', 34357), ('Ricky Ponting', 27483), ('Jack Kallis', 25534), ('

sorted_data = sorted(data, key=lambda x: x[1])
print(sorted_data)
```

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

In [ ]:
```
 Find the squares of all the numbers in the given list using lambda and map functions
```

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

squares = list(map(lambda x: x**2, numbers))
print(squares)
```

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

In [ ]:
```
Convert the given list of integers into a tuple of strings using map and lambda functions
```

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

converted_tuple = tuple(map(lambda x: str(x), numbers))
print(converted_tuple)
```

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

In [ ]:
```
 Compute the product of a list containing numbers from 1 to 25 using the reduce function
```

In [4]:
```
from functools import reduce

numbers = list(range(1, 26))

product = reduce(lambda x, y: x * y, numbers)
print(product)
```

```
15511210043330985984000000
```

In [ ]:
```
Filter the numbers in a given list that are divisible by 2 and 3 using the filter functio
```

In [5]:
```
numbers = [2, 3, 6, 9, 27, 60, 90, 120, 55, 46]

filtered_numbers = list(filter(lambda x: x % 2 == 0 and x % 3 == 0, numbers))
print(filtered_numbers)
```

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

In [ ]:
```
Find palindromes in the given list of strings using lambda and filter function
```

In [6]:
```
strings = ['python', 'php', 'aba', 'radar', 'level']

palindromes = list(filter(lambda x: x == x[::-1], strings))
print(palindromes)
```

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

In [ ]:
```

```