Ass 3 (2)

August 10, 2023

[ ]:
```
[1.] below
```

[2]:
```
lst = [('Sachin Tendulkar', 34357), ('Ricky Ponting', 27483), ('Jack Kallis',␣
↪25534), ('Virat Kohli', 24936)]

lst.sort(key=lambda x: x[1])

print(lst)
```

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

[ ]:
```
[2.]
```

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

squares = list(map(lambda x: x**2, nums))

print(squares)
```

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

[ ]:
```
[3.]
```

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

strings_tuple = tuple(map(lambda x: str(x), nums))

print(strings_tuple)
```

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

[ ]:
```
[4.]
```

[4]:
```
from functools import reduce

numbers = list(range(1, 26))
```

```
multiply = lambda x, y: x * y

product = reduce(multiply, numbers)

print(product)
```

```
155112100433309859840000000
```

[ ]:
```
[5.]
```

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

divisible_by_2_and_3 = lambda x: x % 2 == 0 and x % 3 == 0

filtered_numbers = list(filter(divisible_by_2_and_3, numbers))

print(filtered_numbers)
```

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

[ ]:
```
[6.]
```

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

is_palindrome = lambda x: x == x[::-1]

palindromes = list(filter(is_palindrome, strings))

print(palindromes)
```

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

[ ]:
```

```