assignment3

April 14, 2023

0.1 QUESTION 1

```python
[5]: players=[('Sachin Tendulkar', 34357), ('Ricky Ponting', 27483), ('Jack Kallis',
      ↪25534), ('Virat Kohli', 24936)]
     players_sorted=sorted(players,key=lambda x:x[1], reverse=True)
     print(players_sorted)
```

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

0.2 QUESTION 2

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

```
[10]: [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
```

QUESTION 3

```python
[14]: STR= [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
      tuple(map(lambda x:str(x),STR))
```

```
[14]: ('1', '2', '3', '4', '5', '6', '7', '8', '9', '10')
```

0.3 QUESTION 4

```python
[19]: from functools import reduce
      numbers=list(range(1,26))
      reduce(lambda x,y:x*y,numbers)
```

```
[19]: 15511210043330985984000000
```

0.4 QUESTION 5

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

```
[21]: [6, 60, 90, 120]
```

0.5 QUESTION 6

```
[26]: strings = ['python', 'php', 'aba', 'radar', 'level']
      list(filter(lambda x:x==x[::-1],strings))
```

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

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