

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)]
```

Ans->

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

```
l1=[i[1] for i in l].sort()
```

```
# l1.sort()
```

```
# l1
```

```
# d={i[0]:i[1] for i in l}
```

```
# d
```

```
# t=tuple((i,list(d.keys()).sort()) for i in d )
```

```
# t
```

```
print(l1)
```

Q.2)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, 4, 5, 6, 7, 8, 9, 10]

Ans->

Code:

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

```
list(map(lambda i:i*i,l))
```

Q.3)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')

Code:

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

```
tuple(map(lambda a:str(a),l))
```

Q.4) Write a python program using reduce function to compute the product of a list containing numbers from 1 to 25.

Code:

```
from functools import reduce
```

```
l=[i for i in range(1,26)]
```

```
reduce(lambda x,y:x*y,l)
```

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]

Code:

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

```
list(filter(lambda z:z%6==0,l))
```

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

Code:

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

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