Q1. Sort a list of tuples based on the integer value using a lambda function

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

sorted_players = sorted(players, key=lambda x: x[1])
print(sorted_players)
```

Q2. Find the squares of all numbers in a list using lambda and map

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

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

Q3. Convert a list of integers into a tuple of strings using map and lambda

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

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

Output:

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

Q4. Compute the product of numbers from 1 to 25 using reduce

```
from functools import reduce

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

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

Q5. Filter numbers divisible by both 2 and 3 using filter

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

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

Q6. Find palindromes in a list of strings using lambda and filter

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

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