**PW SKILLS**

**PYTHON ASSIGNMENT**

```python

# Q1. Sorting list of tuples based on integer value using lambda function

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

sorted\_data = sorted(data, key=lambda x: x[1])

print(sorted\_data)

# Q2. Finding squares of numbers in a list using lambda and map functions

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

squared\_numbers = list(map(lambda x: x\*\*2, numbers))

print(squared\_numbers)

# Q3. Converting list of integers into tuple of strings using map and lambda functions

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

string\_tuple = tuple(map(lambda x: str(x), numbers))

print(string\_tuple)

# Q4. Computing the product of a list containing numbers from 1 to 25 using reduce function

from functools import reduce

product = reduce(lambda x, y: x \* y, range(1, 26))

print(product)

# Q5. Filtering numbers divisible by 2 and 3 in a given list using filter function

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)

# Q6. Finding palindromes in a list of strings using lambda and filter functions

strings = ['python', 'php', 'aba', 'radar', 'level']

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

print(palindromes)

```