1) Python program to calculate the area of a rectangle:

```python
length = float(input("Enter length: "))
width = float(input("Enter width: "))
area = length * width
print("Area of rectangle:", area)
```

2) Program to convert miles to kilometers:

```python
miles = float(input("Enter distance in miles: "))
kilometers = miles * 1.60934
print("Distance in kilometers:", kilometers)
```

3) Function to check if a given string

```python
def is_palindrome(s):
        return s == s[::-1]
is_palindrome("nau uan")
```

4) Python program to find second largest number in the list:

```python
def second_largest(lst):
        sorted_list = sorted(lst)
        return sorted_list[-2]
second_largest([1,2,5,3,7,6,9])
```

5) **Indentation in Python:** Indentation refers to the spaces or tabs at the beginning of a line of code that determine its grouping and structure. In Python, indentation is crucial for indicating blocks of code, such as those within loops, conditionals, and functions.

6) Program to perform set difference operation:

```python
set1 = {1, 2, 3, 4}
set2 = {3, 4, 5, 6}
difference = set1 - set2
print("Set difference:", difference)
```

7) program to print numbers from 1 to 10 using while loop:

```python
num = 1
while num <= 10:
        print(num)
        num += 1
```

8) Program to find factorial of a given number:

```python
num = int(input("Enter a number: "))
factorial = 1
while num > 0:
         factorial *= num
        num -= 1
print("Factorial:", factorial)
```

9) Python program to check if a number is positive, negative, or zero:

```python
num = float(input("Enter a number: "))
if num > 0:
        print("Positive")
elif num < 0:
        print("Negative")
else:
         print("Zero")
```

10) Program to determine the largest among three numbers:

```python
num1 = float(input("Enter first number: "))
num2 = float(input("Enter second number: "))
num3 = float(input("Enter third number: "))
largest = max(num1, num2, num3)
print("Largest number:", largest)
```

11) Python program to create a numpy array filled with ones of given shape:

```python
import numpy as np
shape = (2, 3)
arr = np.ones(shape)
print(arr)
```

12) Program to create a 2D numpy array initialized with random integers:

```python
import numpy as np
shape = (3, 3)
arr = np.random.randint(0, 10, shape)
print(arr)
```

13) Python program to generate an array of evenly spaced numbers over a specified range using linspace:

```python
import numpy as np
arr = np.linspace(1, 10, num=5)
print(arr)
```

14) Python program to create an array containing even numbers from 2 to 20 using arange:

```python
import numpy as np
arr = np.arange(2, 21,  2)
print(arr)
```

15) Program to create an array containing numbers from 1 to 10 with a step size of 0.5 using arange:

```python
import numpy as np
arr = np.arange(1, 11, step=0.5)
print(arr)
```