

1. Python program to calculate area of rectangle

```
# Function to calculate the area using simple multiplication
def area_simple_multiplication(length, width):
    return length * width

# Example usage:
length = 5
width = 8
result = area_simple_multiplication(length, width)
print(f"Area of Rectangle: {result}")
```

2. python program to converter miles to kilometers

```
# driver code
kilometers = 5.5

# conversion factor
conv = 0.621371

# calculate miles
miles = kilometers * conv
print('%0.3f kilometers is equal to %0.3f miles' % (kilometers, miles))

# example 2
kilometers = 6.5

# calculate miles
miles = kilometers * conv
print('%0.3f kilometers is equal to %0.3f miles' % (kilometers, miles))
```

3. python program to find second largest element in list

```
# Python program to find second largest
# number in a list

# list of numbers - length of
# list should be at least 2
list1 = [10, 20, 4, 45, 99]

mx = max(list1[0], list1[1])
secondmax = min(list1[0], list1[1])
n = len(list1)
for i in range(2, n):
    if list1[i] > mx:
        secondmax = mx
        mx = list1[i]
```

```

        elif list1[i] > secondmax and \
            mx != list1[i]:
            secondmax = list1[i]
    elif mx == secondmax and \
        secondmax != list1[i]:
        secondmax = list1[i]

print("Second highest number is : ",\
      str(secondmax))

```

4. indentation in python

Indentation **refers to the spaces at the beginning of a code line**. Where in other programming languages the indentation in code is for readability only, the indentation in Python is very important. Python uses indentation to indicate a block of code.

5. Write a program to perform set difference operation.

Program to perform different set operations like in mathematics

define three sets

E = {0, 2, 4, 6, 8};

N = {1, 2, 3, 4, 5};

set union

print("Union of E and N is", E | N)

set intersection

print("Intersection of E and N is", E & N)

set difference

print("Difference of E and N is", E - N)

set symmetric difference

print("Symmetric difference of E and N is", E ^ N)