1) Write a python program which creates a class named Cone and write a function calculate_area which calculates the area of the Cone.

```
 Sample Execution:
Please enter the radius of the cone: 4
Please enter the height of the cone: 5
Area of a cone with radius: 4.00 and height: 5.00 is: 83.73
```

2) Define a class MathOperation which implements pow(x,n) without using python's in-built pow() method

```
Sample Execution:
M = MathOperation()
print(M.pow(2, 3))
8
print(M.pow(5, -3))
0.008
print(M.pow(-2, 5))
-32
print(M.pow(-5, -3))
-0.008
print(M.pow(20000,0))
1
```

3) Write a python program that creates a class Base and Derived. Use inbuilt function issubclass and isinstance which gives boolean results.(True or False)

```
Check:
Derived class is a subclass of Base class which will return true
Base class is a subclass of Derived class which will return false
Base class is an  instance of Derived class which will return false
Derived class is an instance of Base class which will return true
```

In [ ]:

4) Write a python program that creates base class Person which has two methods

```
def __init__(self, first, last)
def __str__(self)

Also create a derived class named Employee which uses the base class
method "def __str__(self)" using "super()" to concatenate first name wit
h last name
```

In [ ]: