**Python Tasks – Day15**

1. **write output of this code**

**def extendList(val, list=[]):**

**list.append(val)**

**return list**

**list1 = extendList(10)**

**list2 = extendList(123,[])**

**list3 = extendList('a')**

**print("list1 = %s" % list1)**

**print("list2 = %s" % list2)**

**print("list3 = %s" % list3)**

1. **Write a function reverse() that inputs a number and return the reverse of that number, for example if input is 1293, function should return 3921.**
2. **Using the function reverse() in previous program, make a function isPalindrome() that inputs a number and checks whether it is a palindrome number. A number is palindrome number if it remains same after reversing its digits, for example 949, 82328 are palindrome.**
3. **Write a function isprime() which takes a number and returns 1 if the number is prime and 0 otherwise.**
4. **Write a function that inputs two numbers and prints all prime numbers between those numbers.**
5. **Write a program to raise a floating point number to an integer power(eg. an where a is floating point number and n is an integer value.)**

**Note: do not use \*\* and pow built function of python for this purpose**