Series: Introduction to python Presentation: conditions and loops Editing by : Dr. Shiple

Lecture :1

1.	Write a code to print p	prime numb	ers:				
2.	 Step 1: Check if the Step 2: Take the sunot a prime number Step 3: After confirm Step 4: Divide the generative step 5: If the number not a prime number Given a five digit integenerative step 5: Step 5:	e number is ev um of the digits ming the falsity given number er is divisible l ; otherwise, it er, print the	ren (remin s of that r y of steps by all the oy any of is prime. e sum o	nder % 2 = number. If a 1 and 2, prime nur the prime f its digi	= 0) the su find th mbers numb	im is divi e square below its ers less	isible by 3, the number is e root of the given number. s square root value. than its square root, it is
	10564 →16						
3.	Write a program that prints a table of all the Roman-numeral equivalents of the decimal numbers in the range 1 to 100.						
	Roman Numerals: 1 - 1000						
			X	L C	D	M	
			10	100	500	1000	
		1	11	X1	200	CC	
		3	30	XXX	400	CD	
		4 IV	40	XL	500	D	
		5 V	50	L	600	DC	
			60 70		800	DCC	
		8 VIII	80	LXXX	900	CM	
		9 <mark>IX</mark>	90	XC	1000	М	
		10 X	100	С	1001	MI	
4.	Write a program to dis	splay the m	ultiplica	tion tab	le for	given	number n:
	Test Data : n=1						
	Expected Output :						
	1x1 = 1, 2x1 = 2, 3x1 = 3, 4x1 = 4, 5x1 = 5, 6x1 = 6, 7x1 = 7, 8x1 = 8						

5	Write a code to find greatest common divisor of two numbers (iteratively):						
5.	Definitions :-						
	(GCD) of two or more integers, which are not all zero, is the largest positive						
	integer that divides each of the integers.						
	Algorithm Croatest Common Divisor (I)						
	24 18 Algorithm Greatest Common Divisor (1).						
	L , D input. Two positive integers <i>a</i> and <i>b</i> greater than zero.						
	$74 = 7 \times 7 \times 7 \times 3$						
	L = L L L						
	$18 = 2 \times 3 \times 3$						
	$10 L J J 1.1 r \leftarrow a \pmod{b}$						
	$2 \times 3 = 6$						
	$2 \circ 0$ GCD $3 \circ 0$ Between (a)						
	2. Return(<i>a</i>).						
6.	(Bar-Chart Printing Program) One interesting application of computers is drawing						
	graphs and bar charts. Write a program that reads five numbers (each between 1						
	and 30). For each number read, your program should print a line containing that						
	number of adjacent asterisks.						
	For example,						
	If your program reads the number seven, it should print *******.						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space.						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5 5 4 4 4 4 4 4 4 5 4 4 4 4						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5 5 5 4 4 4 4 4 4 4 5 4 4 4 4 4 4 5 4 3 3 3 3 4 5 4 3 3 3 3 4 5 4 3 2 2 2 3 4 5 4 3 2 2 2 3 4 2 2 2 5 4 3 2 1 2 3 4 5 4 3 2 1 2 3 4 2 1 2 5 4 3 2 2 2 3 4 5 4 3 2 2 2 3 4 2 2 2 5 4 3 2 2 2 3 4 5 4 3 2 2 2 3 4 2 2 2 5 4 3 3 3 3 3 4 5 4 3 3 3 3 4 5 4 4 4 4 4 4 4 5 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 Write a program to draw different next patterns.						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						
7.	If your program reads the number seven, it should print ******.Print a pattern of numbers from 1 to n as shown below. Each of the numbers isseparated by a single space. $5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 $						
7.	If your program reads the number seven, it should print ******.Print a pattern of numbers from 1 to n as shown below. Each of the numbers isseparated by a single space. $5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 $						
7.	If your program reads the number seven, it should print ******. Print a pattern of numbers from 1 to n as shown below. Each of the numbers is separated by a single space. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						