

Python Test

1. Python Program to Check Palindrome Number
2. Python Program to Print all multiples of 3 and 5 in an Interval
3. Python Program to Find the Factorial of a Number
4. Python Program to Print the Fibonacci sequence
5. Python Program to Check Armstrong Number
6. Write a Python program to check whether a number is negative, positive or zero.
7. Write a Python program to check whether a number is divisible by 5 and 11 or not.
8. Write a Python program to check whether a year is leap year or not.
9. Write a Python program to check whether a character is alphabet or not.
10. Write a Python program to input any alphabet and check whether it is vowel or consonant.

11. Write output of this code

```
c = map(lambda x:x+x,filter(lambda x: (x>=3), (1,2,3,4)))  
print(list(c))
```

12. Write a python function prime_factor to find out the prime factors of a number.

Some examples of prime factors are –

Prime factors of 56 – 2, 2, 2, 7

Prime factors of 98 – 2, 7, 7

Prime factors of 121 – 11, 11

13. Write a function cubesum() that accepts an integer and returns the sum of the cubes of individual digits of that number
14. Write a function isLeap() which inputs a year and return 1 if the year is leap otherwise 0.
15. Write Python Code to print these patterns

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
*	1	1	2	1	1	5	5
**	22	12	34	01	2 3	54	44
***	333	123	456	101	4 5 6	543	333
****	4444	1234	5678	0101	7 8 9 10	5432	2222
*****	55555	12345	678910	10101	11 12 13 14 15	54321	11111