

write a script that prints the multiples of 7 between 0 and 100 python write a script that prints the multiples of 7 between 0 and 100 python

Python Programs

1). Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 3200 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.

2). Write a program which can compute the factorial of a given numbers. The results should be printed in a comma-separated sequence on a single line.

Suppose the following input is supplied to the program:

8

Then, the output should be:

40320

3). With a given integral number n, write a program to generate a dictionary that contains (i, i*i) such that i is an integral number between 1 and n (both included). and then the program should print the dictionary.

Suppose the following input is supplied to the program:

8

Then, the output should be:

{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64}

4). Write a program which accepts a sequence of comma-separated numbers from the console and generate a list and a tuple which contains every number.

Suppose the following input is supplied to the program:

34,67,55,33,12,98

Then, the output should be:

['34', '67', '55', '33', '12', '98']

('34', '67', '55', '33', '12', '98')

5). Write a program that accepts sequence of lines as input and prints the lines after making all characters in the sentence capitalized.

Suppose the following input is supplied to the program:

Hello world

Practice makes perfect

Then, the output should be:

HELLO WORLD

PRACTICE MAKES PERFECT

6). Write a program that accepts a sentence and calculate the number of uppercase letters and lowercase letters.

Suppose the following input is supplied to the program:

Hello world!

Then, the output should be:

UPPER CASE 1

LOWER CASE 9

7). Write a program that computes the value of $a+aa+aaa+aaaa$ with a given digit as the value of a .

Suppose the following input is supplied to the program:

9

Then, the output should be:

11106

8). Write a program that computes the net amount of a bank account based a transaction log from console input. The transaction log format is shown as following:

Suppose the following input is supplied to the program:

D 300

D 300

W 200

D 100

D means deposit while W means withdrawal.

Then, the output should be:

500

9). You are required to write a program to sort the (name, age, height) tuples by ascending order where name is string, age and height are numbers. The tuples are input by console.

The sort criteria is:

1: Sort based on name;

2: Then sort based on age;

3: Then sort by score.

The priority is that name > age > score.

If the following tuples are given as input to the program:

Tom,19,80

John,20,90

Jony,17,91

Jony,17,93

Json,21,85

Then, the output of the program should be:

[('John', '20', '90'), ('Jony', '17', '91'), ('Jony', '17', '93'), ('Json', '21', '85'), ('Tom', '19', '80')]

10). Write a program which are divisible by 7 and between a given range 0 and n.

11). Use a list comprehension to square each odd number in a list. The list is input by a sequence of comma-separated numbers.

Suppose the following input is supplied to the program:

1,2,3,4,5,6,7,8,9

Then, the output should be:

1,3,5,7,9

12). Please write a program to output a random even number between 0 and 10 inclusive using random module and list comprehension.

13). Please write a program to output a random number, which is divisible by 5 and 7, between 0 and 10 inclusive using random module and list comprehension.

14). Please write a program to generate a list with 5 random numbers between 100 and 200 inclusive.

15). Please write a program to randomly generate a list with 5 even numbers between 100 and 200 inclusive.

16). Please write a program to randomly generate a list with 5 numbers, which are divisible by 5 and 7 , between 1 and 1000 inclusive.

17). Please write a program to shuffle and print the list [3,6,7,8].

18). Please write a program to generate all sentences where the subject is in ["I", "You"] and verb is in ["Play", "Love"] and the object is in

19). Please write a program to print the list after removing delete even numbers in [5,6,77,45,22,12,24].

20). By using list comprehension, please write a program to print the list after removing delete numbers which are divisible by 5 and 7 in [12,24,35,70,88,120,155].

21). By using list comprehension, please write a program generate a 3*5*8 3D array whose each element is 0.

22). By using list comprehension, please write a program to print the list after removing the 0th,4th,5th numbers in [12,24,35,70,88,120,155].

23). By using list comprehension, please write a program to print the list after removing the value 24 in [12,24,35,24,88,120,155],

24). With two given lists [1,3,6,78,35,55] and [12,24,35,24,88,120,155], write a program to make a list whose elements are intersection of the above given lists.

25). With a given list [12,24,35,24,88,120,155,88,120,155], write a program to print this list after removing all duplicate values with original order reserved.

26). Use a list comprehension to square each odd number in a list. The list is input by a sequence of comma-separated numbers.

Suppose the following input is supplied to the program:

1,2,3,4,5,6,7,8,9

Then, the output should be:

1,3,5,7,9

27). By using list comprehension, please write a program to print the list after removing the 0th, 2nd, 4th, 6th numbers in [12,24,35,70,88,120,155].

28). By using list comprehension, please write a program to print the list after removing the 0th, 4th, 5th numbers in [12,24,35,70,88,120,155]

29). Please write a program which accepts a string from the console and prints it in reverse order.

If the following string is given as input to the program:

rise to vote sir

Then, the output of the program should be:

ris etov ot esir

30). Write a program to generate below Pattern:

```
*
* *
* * *
* * * *
* * * * *
* * * * * *
```

31). Write a program to print the below pattern

```
      *
     * *
    * * *
   * * * *
  * * * * *
 * * * * * *
```

32). Write a program to generate below Pattern:

```
      *
     * *
    * * *
   * * * *
  * * * * *
 * * * * * *
* * * * * * *
```

33). Write a program to generate below Pattern:

```
* * * * *  
* * * * *  
* * * *  
* * *  
* *  
*  
*
```