

Python Problems

1. How to print spaces in Python?
2. Python | Printing different messages by using different variations of print() method.
3. Python program to print given text using a user-defined method
4. Python | Printing different values (integer, float, string, Boolean).
5. Python | Declare different types of variables, print their values, types and Ids.
6. Python program to demonstrate variables scope
7. Determine the type of an object in Python
8. Create number variables (int, float and complex) and print their types and values in Python
9. Create integer variable by assigning binary value in Python
10. Create integer variable by assigning octal value in Python
11. Create integer variable by assigning hexadecimal value in Python
12. Python | Typecasting Input to Integer, Float.
13. How to check multiple variables against a value in Python?
14. Python | Program to define an integer value and print it.
15. Python | Input two integers and find their addition.
16. Python program to find sum of two numbers
17. Python program to find addition of two numbers (4 different ways)
18. Python Arithmetic Operators Example
19. Python program to print ASCII value of a character
20. Python program for simple interest
21. Python program for compound interest
22. Python program to check the given year is a leap year or not
23. Simple pattern printing programs in Python
24. Create a function to check EVEN or ODD in Python
25. Create a function to return the absolute the given value in Python

26. Python program to check whether a given number is a Fibonacci number or not
27. Python program to find power of a number using exponential operator
28. Python program to find the power of a number using loop
29. Python program to find the power of a number using recursion
30. Python program to extract and print digits in reverse order of a number
31. Python program to reverse a given number (2 different ways)
32. Python program to find floor division
33. Python | Some of the examples of simple if else.
34. Python | Input age and check eligibility for voting.
35. Python | Find largest of three number using nested if else.
36. Python | Calculate discount based on the sale amount.
37. Python | Calculate discount based on the sale amount using Nested if else.
38. Python | Example of Ternary Operator
39. Python | Design a simple calculator using if elif (just like switch case)
40. Python | Demonstrate an example of for loop
41. Python | Demonstrate an example of for each loop
42. Python | Examples of loops (based on their control)
43. Python | Some of the Examples of loops
44. Python | Demonstrate an Example of break statement
45. Python | Demonstrate an Example of continue statement
46. Python | Demonstrate an Example of pass statement
47. Python | Program to print numbers from N to 1 (use range() with reverse order).
48. Python | Print all numbers between 1 to 1000 which are divisible by 7 and must not be divisible by 5.
49. Python | Calculate square of a given number (3 different ways).
50. Python | Find factorial of a given number (2 different ways).

51. Python | Find the factorial of a number using recursion
52. Python | Write functions to find square and cube of a given number.
53. Python | Declare any variable without assigning any value.
54. Python | BMI (Body Mass Index) calculator.
55. Python | Program to print Odd and Even numbers from the list of integers.
56. Python | Program to print Palindrome numbers from the given list.
57. Python | Compute the net amount of a bank account based on the transactions.
58. Python | Count total number of bits in a number.
59. Python | Generate random number using numpy library.
60. Generate random integers between 0 and 9 in Python
61. Python | Program to calculate n-th term of a Fibonacci Series
62. Python program to check prime number
63. Python program to calculate prime numbers (using different algorithms) upto n
64. Python program for not None test
65. Python program for pass statement
66. Python program to define an empty function using pass statement
67. Python program for Zip, Zap and Zoom game
68. Python program to convert temperature from Celsius to Fahrenheit and vice-versa
69. Python program to find the number of required bits to represent a number in $O(1)$ complexity
70. Python program to count number of trailing zeros in Factorial of number N
71. Python program for swapping the value of two integers
72. Python program for swapping the value of two integers without third variable
73. Python program to find winner of the day
74. Python program for Tower of Hanoi
75. Python program to find standard deviation

76. Python program to find the variance
77. Python program Tower of Hanoi (modified)
78. Python program to convert Centimeter to Inches
79. Python program to convert meters into yards
80. Python program to convert yards into meters
81. Python program to capitalize the character without using a function
82. Python program to lowercase the character without using a function
83. Python program to find perfect number
84. Python program to print perfect numbers from the given list of integers
85. Python program to design a dice throw function
86. Python program to design a biased dice throw function
87. Python program to design a biased coin flip function
88. Python program to design a coin flip function
89. Python program to find greatest integer using floor() method
90. Python program to find the maximum EVEN number
91. Python program to find the maximum ODD number
92. Python program to find the solution of a special sum series
93. Python | Convert the binary number to decimal without using library function
94. Python | Convert the decimal number to binary without using library function
95. Create a stopwatch using Python
96. Python program to find the maximum multiple from given N numbers
97. Python program to find the least multiple from given N numbers
98. Find the root of the quadratic equation in Python
99. Python program to check the given Date is valid or not
100. Python program to print the calendar of any year

101. Find all Prime numbers less than or equal to N using the Sieve of Eratosthenes algorithm in Python
102. Find the sum of all prime numbers in Python
103. Print the all uppercase and lowercase alphabets in Python
104. Find the N-th number which is both square and a cube of a number in Python
105. Program to find the execution time of a program in Python
106. Program to find the x-intercept and y-intercept of a line passing through the given point in Python
107. Find the day of the week for a given date in the past or future in Python
108. Find the number of integers from 1 to n which contains digits 0's in Python
109. Check whether a number is a power of another number or not in Python
110. Check whether the binary representation of a given number is a palindrome or not in Python
111. Draw a pie chart that shows our daily activity in Python
112. Find the sum of all numbers below 1000 which are multiples of 3 or 5 in Python
113. Python | How can I force division to be floating point? Division keeps rounding down to 0?
114. Python program to print the list of all keywords
115. Python program to print the version information
116. Python program to find sum of all digits of a number
117. Print number with commas as thousands separators in Python
118. Python program to print table of number entered by user
119. Python program to calculate currency notes required to get the amount
120. Python program to calculate discount based on selling price
121. Python program to calculate gross pay (Hourly paid employee)
122. Python program to get employee details and search for record by ID, surName or Designation
123. Python program for Basic Shop Management System
124. More ...

125. Python program to define an empty function using pass statement
126. Python program to design a dice throw function
127. Python program to design a biased dice throw function
128. Python program to design a biased coin flip function
129. Python program to design a coin flip function
130. Python program to print the list of all keywords
131. Python program to print the version information
132. Python program to find sum of all digits of a number
133. Print number with commas as thousands separators in Python
134. Python program to demonstrate logical errors
135. Python program to print table of number entered by user
136. Python program to calculate currency notes required to get the amount
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138. Python program to calculate gross pay (Hourly paid employee)
139. Python program to get employee details and search for record by ID, surName or Designation
140. Python program for Basic Shop Management System
141. Python program to import modules – different Methods
- 142.

Python array programs

1. Python program to find the sum of all elements of an array
2. Python program to find a series in an array consisting of characters
3. Python program to find the occurrence of a particular number in an array
4. Find the union and intersection of two arrays in Python
5. Python program to create matrix in Python
6. More ...

7. Find the union and intersection of two arrays in Python
8. Python program to create matrix in Python
9. Python program to create matrix using numpy
10. Python program for matrix operations
11. Python program to get matrix as input from user and print it in different type
12. Python program to add two matrices and print the resulting matrix
13. Python program to filter matrix based on a condition
14. Python program to illustrate the working of lambda functions on array
15. Python program to apply lambda functions on array
16. Python program to find the GCD of the array
17. Python program to find the LCM of the array elements
- 18.

Python string programs

1. Python | Declare, assign and print the string (Different ways).
2. Python | Access and print characters from the string.
3. Python program to print a string, extract characters from the string.
4. Python | Program to print words with their length of a string.
5. Python | Print EVEN length words.
6. More ...
7. Python | Count vowels in a string.
8. Python | Passing string value to the function.
9. Python | Create multiple copies of a string by using multiplication operator.
10. Python | Appending text at the end of the string using += Operator.
11. Python | Concatenate two strings and assign in another string by using + operator.
12. Python | Check if a substring presents in a string using 'in' operator
13. Python | Assign Hexadecimal values in the string and print it in the string format

14. Python | How to print double quotes with the string variable?
15. Python | Ignoring escape sequences in the string
16. Python program to calculate the number of all possible substrings of a string
17. Python program to reverse a given string (5 different ways)
18. Python program to reverse a string using stack and reversed method
19. Split a string into array of characters in Python
20. Python program for slicing a string
21. Python program to repeat M characters of a string N times
22. Python program to swap characters of a given string
23. Python program to remove a character from a specified index in a string
24. Python program for adding given string with a fixed message
25. Find all permutations of a given string in Python
26. Python | Write a function to find sum of two integral numbers in string format.
27. Python program to check whether a string contains a number or not
28. Python program to find the matched characters in a given string
29. Python | Find the frequency of each character in a string
30. Extract the mobile number from the given string in Python
31. Replace a special string from a given paragraph with another string in Python
32. Find the ASCII value of each character of the string in Python
33. Print the reverse of a string that contains digits in Python
34. Convert a String to camelCase in Python
35. Capitalizes the first letter of each word in a string in Python
36. Python program to check if a string is palindrome or not
37. Python program to input a string and find total number uppercase and lowercase letters
38. Python program to input a string and find total number of letters and digits
39. Python program to convert a list of characters into a string

40. Python program to check whether a variable is a string or not
41. Python program to count occurrence of a word in the given text
42. Python program to search for a pattern in string
43. Python program for removing i-th character from a string
44. Python program to find the length of a string (different ways)
45. Python program to accept the strings which contains all vowels
46. Python program to find the least frequent character in the string
47. Python program to split and join a string
48. Python program to find words which are greater than given length k
49. How to check if a string contains special characters or not in Python?
50. Python program to find the maximum frequency character in the string
51. Python program to check whether a given string is binary or not
52. Python program to execute Python code from the string
53. Python program to find uncommon words from two string
54. Python program to print URL from a string

Python Class and Object programs

1. Python example to define a class
2. Python | Demonstrate an example of Class and Object
3. Python | Simple program of a class (Input and print a number)
4. Public variables in Python
5. Python | Create Employee class with some attributes and methods
6. More ...
7. Python | Create Employee Class
8. Python | Create Employee Class with Constructor and Destructor
9. Example of single inheritance in Python (1)

10. Python program to illustrate Single Inheritance (2)
11. Example of inheritance with two child (derived) classes in Python
12. Example of multiple inheritance in Python
13. Example of Multilevel Inheritance in Python (1)
14. Example of Multilevel Inheritance in Python (2)
15. Example of Hierarchical Inheritance in Python (1)
16. Example of Hierarchical Inheritance in Python (2)
17. Python program to illustrate constructor inheritance
18. Python program to check prime number using object oriented approach
19. Python program to count number of objects created
20. Python program to check Armstrong number using object oriented approach
21. Python program to check Palindrome number using object oriented approach
22. Student height record program for a school in Python
23. Building Restaurant Menu using Class in Python
24. Program for students marks list using class in Python
25. Program to manage a phone store (mobile shop) record using class in Python
26. Program to build flashcard using class in Python
27. Python program to add two distances
28. Python program to find elder of two persons
29. Python program to add accounts in a bank (Bank Management System)
30. Python program to get student details as input and print the result after updating the marks
31. Arrays of Objects Example in Python
32. Searching of objects from an array of objects using ID in Python
33. Hierarchical Inheritance Example in Python
34. Constructor Initialization Example in Python
35. Parameterized Constructor and Destructor Example in Python

36. Python program to add numbers using Objects
37. Multiple Inheritance Example in Python
38. Multilevel Inheritance Example in Python
39. Python program to add objects '+' using operator
40. Python program to see the working of filter() method
41. Python program to search student record using percentage
42. Python program to search objects from an array of objects using filter() method
43. Python program to illustrate Matrix Addition using Class
44. Python program to compare two objects using operators
45. Python program to illustrate the working of list of objects
46. Python program to convert hours into days
47. Python program to illustrate the working of abstract method
48. Python program to illustrate the working of decorators
49. Python program to pass objects as arguments and return objects from function

File handling programs

1. Append content to a file in Python
2. Read contents of the file using readline() method in Python
3. Read contents of a file using readline() method and manipulating it in Python
4. Copy odd lines of one file to another file in Python
5. Setting file offsets in Python
6. More ...
7. Read contents of the file using readlines() method in Python
8. Check if the record is present in the file using its id in Python
9. Copy contents from one file to another file in Python
10. Copy odd lines of one file to another file in Python

11. Count the total number of uppercase characters in a file in Python
12. Python program to count total number of uppercase and lowercase characters in file
13. Setting file offsets in Python
14. Read a program from another file in Python
15. Python program to delay printing of lines from a file using sleep function
16. Python program to count the number of lines in a file
17. Python program to read first N character from each line
18. Python program to read data from file and extract record data from it
19. Python program to check a file's status in file Handling
20. Python program to read character till a count
21. Python program to delete a file
22. Choice-based read-write program in Python - Basic File Manager Project

Python Data Structures Programs

1. Python program for Bubble Sort
2. Python program for Insertion Sort
3. Python program for Selection Sort
4. Python program for Linear Search
5. Breadth First Search for a Graph in Python
6. More ...

Python exception handling programs

1. Python exception handling program (Handling divide by zero exception)
2. Python exception handling program (Handling Type exception)
3. Python program to illustrate importing exception from another file
4. Python program to illustrate the import exception defined in another file and defining a new one

5. Add two integers only with Exception Handling in Python
6. Create a library with functions to input the values with exception handling in Python
7. IndexError Exception in Python with Example
8. ValueError Exception in Python with Example
9. Python program to raise an exception
10. Python Program for Raising User Generated Exception
11. Python program to print inbuilt exception statement while type of exception is occurred

Python database (SQL/MySQL) programs

1. Python program to create an SQL table
2. Python program to display SQL table content
3. Insertion of Records to Database in Python
4. Fetch employee details from the database whose salary lies within a certain range in Python
5. Delete a Record from the Database in Python
6. Python program to create an SQL table
7. Python program to display SQL table content
8. Insertion of Records to Database in Python
9. Fetch employee details from the database whose salary lies within a certain range in Python
10. Delete a Record from the Database in Python
11. Python program to delete a record from database using its ID (Example 2)
12. Search a record from the database table using pattern in Python
13. Python program to search for a record using ID in SQL
14. Python program to search product records based on given price range from the database
15. Python program to update records in the database

Python Threading Programs

1. Python program to illustrate naming of threads
2. Python Program to illustrate parameterized threads
3. Python program to illustrate multithreading
4. Python program to create and delete threads using sleep method
5. Python program for multithreading with class

Python List Programs

1. Python | Program to declare and print a list.
2. Python program to print list elements in different ways.
3. Python | Program for Adding, removing elements in the list.
4. Python | Program to print a list using 'FOR and IN' loop.
5. Python | Program to add an element at specified index in a list.
6. Python | Program to remove first occurrence of a given element in the list.
7. Python | Remove all occurrences a given element from the list.
8. Python | Program to remove all elements in a range from the List.
9. Python | Program to sort the elements of given list in Ascending and Descending Order.
10. Python | Program to find the differences of two lists.
11. Python | Program to remove first occurrence of a given element in the list.
12. Python | Remove all occurrences a given element from the list.
13. Python | Program to remove all elements in a range from the List.
14. Python | Program to sort the elements of given list in Ascending and Descending Order.
15. Python | Program to find the differences of two lists.
16. Python | Program to Print the index of first matched element of a list.
17. Python | Program to find the position of minimum and maximum elements of a list.
18. Python | Program to input, append and print the list elements.

19. Python | Program to remove duplicate elements from the list.
20. Python | Program to Create two lists with EVEN numbers and ODD numbers from a list.
21. Python | Program to print all numbers which are divisible by M and N in the List.
22. Python | Create a list from the specified start to end index of another list.
23. Python | Create three lists of numbers, their squares and cubes.
24. Python | Create two lists with first half and second half elements of a list.
25. Python | Iterate a list in reverse order.
26. Python | print list after removing EVEN numbers.
27. Python | print list after removing ODD numbers.
28. Python | Input comma separated elements, convert into list and print.
29. Python | Convert a string to integers list.
30. Using List as Stack in Python.
31. Python | Extend a list using + Operator.
32. Python program to find N largest and smallest elements from the list
33. Python program for various list operations
34. Find the index of an item given a list containing it in Python
35. Extract Even and odd number from a given list in Python
36. Remove falsy values from a list in Python
37. Python program to remove multiple elements from a list using list comprehension
38. Check all elements of a list are the same or not in Python
39. Check all elements are unique or not in Python
40. Python program to print positive or negative numbers in a list
41. Python program to extract keywords from the list
42. Python program to remove empty list from a list of lists
43. Python program to multiply all numbers of a list
44. How to find the length of a list in Python (3 effective ways)?

45. Python program to check if an element is present in list
46. Python program to swap any two elements in the list
47. Python program to interchange first and last element in a list
48. Python program to find the cumulative sum of elements of a list
49. How to clone or copy a list in Python? Cloning or copying a list
50. Python program to find the sum of number digits in list

Python Dictionary Programs

1. Python program to create an empty dictionary
2. Python program to create a dictionary using dict() function
3. Python program to create a dictionary from a sequence
4. Python program to create a dictionary with integer keys, and print the keys, values & key-value pairs
5. Python program to create a dictionary with mixed keys, and print the keys, values & key-value pairs
6. Python | Generate dictionary of numbers and their squares (i, i*i) from 1 to N
7. Python program to search student record stored using Dictionary
8. Python program for accessing elements from a dictionary
9. Python program for adding elements to a dictionary
10. How to compare two dictionaries in Python?
11. Python | Generate dictionary of numbers and their squares (i, i*i) from 1 to N
12. Python program to search student record stored using Dictionary
13. Python program for accessing elements from a dictionary
14. Python program for accessing elements from a nested dictionary
15. Python program for adding elements to a dictionary
16. Python program for removing elements from a dictionary

17. Python program to change the dictionary items
18. Loop through a dictionary in Python
19. Python program to copy dictionaries
20. Python program to get the keys of a dictionary
21. Python program to get all unique keys from a set of dictionaries
22. Python program to extract unique values from the dictionary
23. Python program to print sum of key-value pairs in dictionary
24. Python program to randomize (shuffle) values of dictionary
25. Python program to replace dictionary value for the given keys in another dictionary
26. Python program to swap the position of dictionary items
27. How to compare two dictionaries in Python?
28. Python program to find the sum of all items of the dictionary
29. How to remove a key from dictionary in Python?
30. Python program to convert key-value list to flat dictionary – Dictionary Flattening
31. Python program to insert an element at the beginning in OrderedDict
32. Python program to sort dictionary key and values list
33. How to Handle Missing Keys in Python Dictionary?

Python Tuple Programs

1. Python program to find the size of a tuple
2. Python program for adding a Tuple to List and Vice-Versa
3. Python program to find the maximum and minimum K elements in a tuple
4. Python program to create a list of tuples from given list having number and its cube in each tuple
5. Python program to remove all tuples of length K
6. Python program to extract digits from tuple list
7. Python program to find all pairs combination of two tuples

8. Python program to join tuples if similar initial element
9. Python program to sort a list of tuples by second item
10. Python program to sort a list of tuples in increasing order by the last element in each tuple
11. Python program to sort tuples by frequency of their absolute difference
12. Python program to remove duplicate tuples irrespective of order
13. Python program to order tuples by list
14. Python program to concatenate maximum tuples
15. Python program to flatten tuple of lists to a tuple
16. Python program to change the sign of elements of tuples in a list
17. Python program to convert integer values in a list of tuples to float
18. Python program to convert set into tuple and tuple into set
19. Python program to restrict tuples by frequency of first element's value in a tuple list
20. Python program to extract tuples having K digit elements
21. Python program to find tuples from list which have all elements divisible by K
22. Python program to remove tuples from the list having every element as None
23. Python program to assign frequency to tuples
24. Python program to check if any list element is present in Tuple
25. Python program to remove given character from the first element of Tuple
26. Python program to extract tuples with all numeric strings
27. Python program to perform tuple intersection in list (order irrespective)
28. Python program to convert binary tuple to integer
29. Python program to convert tuple matrix to tuple list
30. Python program to convert tuple into list by adding the given string after every element
31. Python program to sort tuples by their maximum element
32. Python program to find tuples with positive elements in list of tuples
33. Python program to find the frequency of all tuple elements

34. Python program to perform cross pairing in tuple list
35. Python program to concatenate tuple elements by delimiter
36. Python program to extract all symmetric tuples
37. Python program to perform cross tuple summation grouping using 2nd element
38. Python program to perform row-wise element addition in Tuple matrix
39. Python program to get even indexed elements in tuple
40. Python program to sort tuples by total digits
41. Python program to remove space between tuple elements
42. Python program to print all pair combinations of elements from 2 tuples
43. Python program to print all group tuples by Kth index element
44. Python program to alternate elements operation on tuple
45. Python program to convert Tuple to Tuple Pair
46. Python program to extract adjacent coordinates in N dimension
47. Python program to perform multiple keys grouped summation
48. Python program to convert list of lists to tuple of tuples
49. Python program to Flatten Nested Tuples
50. Python program to clear tuple elements
51. Python program to convert tuple string to integer tuple
52. Python program to perform the operation to zip uneven tuples
53. Python program to find the sum of tuple elements
54. Python program to perform the tuple elements inversions
55. Python program to perform union of tuple
56. Python program to extract rear elements from tuple string
57. Python program to index maximum among tuples
58. Python program to perform nested tuple subtraction
59. Python program to filter range length tuples

60. Python program to perform tuple intersection
61. Python program to get records with value at K index
62. Python program to perform elementwise AND operation in tuple
63. Python program to check if the given tuple is a true record or not
64. Python program to concatenate consecutive elements in tuple
65. Python program to perform AND operation on tuples
66. Python program to find the maximum nested tuple
67. Python program to remove nested records from tuple
68. Python program to sort list of tuples alphabetically
69. Python program to find maximum value in record list as tuple attribute
70. Python program to find the index of minimum value record
71. Python program to extract rear element from list of tuples record
72. Python program to find the modulo of tuple elements
73. Python program to perform pairwise addition in tuples
74. Python program to perform concatenation of two string tuples
75. Python program to extract maximum value in record list as tuple attribute
76. Python program to find modulo of tuple elements
77. Python program to perform division operation on tuples
78. Python program to perform XOR operation on tuples
79. Python program to raise elements of tuple as a power to another tuple
80. Python program to create a tuple from string and list
81. Python program for creating N element incremental tuple
82. Python program to convert tuple to integer
83. Python program to check if the element is present in tuple
84. Python program to check if a tuple is a subset of another tuple
85. Python program to perform multiplication operation on tuples

86. Python program to perform comparison operation on tuples
87. Python program to check if the tuple has any none value
88. Python program to chunk tuples to N size
89. Python program to access front and rear elements from tuple
90. Python program to find the maximum element in tuple list
91. Python program to add a dictionary to tuple
92. Python program to update each element in the tuple list
93. Python program to multiply adjacent elements of a tuple
94. Python program to extract unique elements in nested tuple
95. Python program to perform subtraction of elements of tuples
96. Python program to check for None tuple
97. Python program to convert tuple to adjacent pair dictionary
98. Python program to count all the elements till first tuple
99. Python program to perform the addition of nested tuples
100. Python program to convert tuple to float value
101. Python program to concatenate tuples to nested tuple
102. Python program to perform summation of tuple in list
103. Python program to flatten tuple list to string
104. Python program to repeat tuples N times
105. Python program to check if two lists of tuples are identical or not
106. Python program to filter tuples according to list element
107. Python program to find the maximum difference between tuple pairs
108. Python program to record similar tuple occurrence

Python Regular Expression Programs

1. Python Regex | program to Remove leading zeros from an IP address

2. Python program to understand difference between match() and search() methods
3. Python program to check the presence of substring in given string - Regex Example
4. Python program to check whether a regular expression is present in string or not
5. Python program to extract phone number from string using sub() method

Python Lambda Function Programs

1. Python program to filter even values from list using lambda function
2. Python program to find the sum of elements of a list using lambda function
3. More Python Lambda Function Programs ...

Python Date & Time Programs

1. Python program to get current date
2. Python program to get current time
3. Python program to print today's year, month and day
4. Python program to print current hour, minute, second and microsecond
5. Python program to print all timezones using pytz module

Python game programs

1. Python program for rolling the dice (2-player dice game)
2. Snakes and ladder (Single player) in Python

Python miscellaneous programs

1. Python program to find number of bits necessary to represent an integer in binary
2. Python program to print number of bits to store an integer and also print number in Binary format
3. Python program to print an array of bytes representing an integer
4. Python program to print the binary value of the numbers from 1 to N
5. Design Traditional and Magic Calculator in Python3
6. Python | Create a line plot using matplotlib.pyplot

7. Python | Create a bar chart using matplotlib.pyplot
8. Python | Create a bar graph with using matplotlib.pyplot
9. Python | Create a stacked bar using matplotlib.pyplot
10. Python | Create a scatter plot using matplotlib.pyplot
11. Python | Create pie-chart using matplotlib.pyplot
12. Python | Create stack plot using matplotlib.pyplot
13. Python program for plotting in same and different graph
14. Histogram using Pylab in Python
15. Python program for single dice simulation
16. Python program for single biased dice simulation
17. Python program for biased coin flipping simulation
18. Python program for double biased dice simulation
19. Python program for double dice (one biased one normal) simulation
20. Python program to generate the QR code in Python
21. Greedy algorithm for a knapsack problem with the example of Robbery in Python
22. Corona Virus Live Updates for India (District Wise) – Using Python
23. English dictionary application using Python
24. Emotional and Sentiment Analysis with the help of Python
25. Control Mouse in Python
26. Edge Detection of Image using OpenCV (CV2) in Python
27. Cropping an Image using OpenCV in Python
28. Converting an OpenCV Image to Black and White in Python