1. write a python program to output welcome to python
2. write a python program to declare multiple variables in a single line
3. write a python program with legal and illegal variables
4. write a python program to combine two variables
5. write a program to get the data type of an object
6. write a program to input multiline strings
7. write a program to convert one data type into other
8. .write a program to input a string
9. str2="communication" then find
    1.str2[0]
    2.str2[1]
    3.str2[-1]
    4.str2[-4]
    5.str2[2:12:3]
    6.str2[3:9:2]
    Str2[::3]
    .str2[::2]
    Str2[::-2]
    str2[::-1]
10. write a program to generate random numbers
11. Write a python program to use the isalnum method
12. convert a string to a lower
13. Write a python program to use capitalize method
14. remove white spaces from the begging of a string
15. Write a python program to use ends with the method
16. write a program to check whether a certain character or phrase is present in a string or not
17. write a program to find the length of a string
18. write a program to split the strings into substrings
19. Write a python program to use the case fold method
20. write a program to replace a string with other
    Get the first character of the string txt.
    txt = "Welcome to python"

21. Get the characters from index 2 to index 4
    txt = "Welcome to python"
22. Return the string without any whitespace at the beginning of the end.
    txt = " Welcome to python "
23. Using the type() function assign the type of the variable to answer_1, then print it.
24. men_stepped_on_the_moon=12 answer_1=
    print(answer_1)

25. 5.str="It's always darkest before dawn."
26. Replace the (.) with (!)

27. Reassign str so that, all its characters are lowercase.
28. str="EVERY Strike Brings Me Closer to the Next Home run."

29. Make the string so that everything is properly and the first letter is capital
    str=" there are no traffic JamS Along with The extra "
30. Print the types of two given variables with the print function.
    v_1="1"
    v_2=1
31. What is the length of the given string?
    str="1.975.000"
32. write a program To check whether a character is a numeric character or not,
33. Perform comparison operations
        X=5
        Y=6
34. write a python program using the not in operator
35. write a python program using is the operator
36. write a python program using is not operator
37. X=10 Y=3 Print
        X+y
        X
        X*y
        X//y
        X**y
38. Print 1-500 using while loops
39. Write a program using the if,elif, and else statement
40. Use continue statement in while loops
41. Use break statement in while loops
42. create a list with
    itemsx=['apple','banana','cherry','grapes','kiwi','tomato','mango','orange','banana',True
    ,False,10,20,10.5] Find,
        X[0]
        X[5]
        X[-1]
        X[-2]
        X[3:10]
        X[2:11]
        X[::9]
        X[4::]
        X[2:10:2]
        X[1:11:3]
        X[::3]
        X[::-2]
        x[::-1]

43. write a python program to create a new list

44. .write a program to retrieve the first item from a list
45. .write a program to determine the length of a list
46. .write a python program to change the first item in a list
47. write a python program using negative indexing

48. write a program to add a new item to the end of a list
49. create a list and display the list in reverse order
50. write a program to find the maximum value in a list
51. write a program to display the index of an element in a list
52. write a program to count the occurrence of an Element in a list
53. create a nested list and display each item from the list
54. Based on a list of fruits, create a new list, containing only the fruits with the letter "a" in the name.
55. fruits = ["apple", "banana", "cherry", "kiwi", "mango"] Based on a list of fruits, create a new list, Only accept items that are not "kiwi"
56. fruits = ["apple", "banana", "cherry", "kiwi", "mango"] Based on a list of fruits, create a new list, Set the values in the new list to upper case
57. create a list and iterate over the list
58. write a program using for loop with a break statement
59. write a program using for loop with a continue statement
60. write a program using range function with starting parameter and increment parameter
61. write a program to create a tuple
62. write a program to get the length of a tuple
63. write a program to return the data type of a tuple
64. create a tuple with items kiwi, orange, grapes, apple,
65. then add a new item (melon) to the first index
66. write a program to append an item to the tuple
67. write a program to remove an item from a tuple
68. write a program to concatenate two tuples
69. write a program to extract the values from a tuple into variables
70. extract values from tuple using Asterix
71. count the number of occurrences of an item in a tuple
72. remove items from a tuple by using merge with +Character
73. slice a tuple using start-stop, step parameter
74. slice a tuple with step parameter is negative
75. returns a tuple with a jump every 3 times
76. find the maximum value in a tuple
77. Find min value in a tuple
78. find the sum of items in a tuple
79. write a program to find the index of an item
80. write a program to find the length of a set
81. write a program to create a set
82. write a program to remove an item from the set using the remove method
83. write a program to add items from one set to another
84. write a program to join two sets
85. write a program to remove an item from the set using the discard method
86. write a program to add an item to a set
87. write a program using the symmetric difference method
88. write a program using the intersection update method
89. Write a Python script to add a key to a dictionary
90. Write a Python script to check whether a given key already exists in a dictionary.
91. .Write a Python program to get the key, value, and item in a dictionary.

92. print the value of the "model" key of the car dictionary using the get method

```
car =  {
  "brand": "Ford",
  "model": "Mustang",
  "year": 1964
}
```

93. Change the "year" value from 1964 to 2020. in the above dictionary
94. Write a Python program to remove a key from a dictionary.
95. create a dictionary using the dict constructor
96. write a program with a dictionary update method
97. write a program to remove the last inserted item from a dictionary
98. write a program to empty a dictionary
99. write a program to copy a dictionary
100. Create and call a function
101. create a function using the arbitrary argument
102. create a function using an arbitrary keyword argument
103. create a function with a return statement
104. create a function with a default parameter value
105. write a program using the zip method
106. write a program using the iter method
107. write a program using the map function
108. Write a program using enumerate function
109. write a program to sum all the items in a list

    Example
    i/p-[1,2,8]
    o/p-11

110. Write a Python program to get the largest number from a list.
111. .Write a Python program to convert a list of characters into a string.

    Example
    i/p- str1 = ['w', 'e', 'l', 'c','o','m','e']
    o/p=welcome

112. Write a program to find the length of the string "communication" without using the len function.

113. 5.How to check if string ends with one of the strings from a list?

```
str_list = ['aaa', 'bbb', 'ccc', 'ddd']  # list of items
str_test = 'testccc'  # string need to test
```

114. Write a Python program to unpack a tuple in several variables
115. Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 2500 and 3700 (both included).
116. Write a Python program that iterates the integers from 1 to 70. For multiples of three print "Abb" instead of the number and the multiples of five print "Bcc". For numbers that are multiples of both three and five print "Add".
117. Write a program to check whether a number is divisible by 7 or not.
118. print first 20 natural numbers using while loop
119. Write a Python script to add a key to a dictionary.
120. Write a Python script to concatenate the following dictionaries to create a new one.

Sample Dictionary :
dic1={1:10, 2:20}
dic2={3:30, 4:40}
dic3={5:50,6:60}
Expected Result : {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

121. Write a Python script to check whether a given key already exists in a dictionary.
122. Write a Python program to iterate over dictionaries using for loops.
123. Write a Python script to generate and print a dictionary that contains a number (between 1 and n) in the form (x, x*x).
124. Write a Python program to remove a key from a dictionary
125. Write a Python program to get the key, value, and item in a dictionary.
126. print the value of the "model" key of the car dictionary using the get method

```
car =  {
  "brand": "Ford",
  "model": "Mustang",
  "year": 1964
}
```

127. Change the "year" value from 1964 to 2020. in the above dictionary
128. create a dictionary using the dict constructor
129. Delete set of keys from Python Dictionary

```
sampleDict = {
  "name": "Kelly",
  "age":25,
  "salary": 8000,
  "city": "New york"

}
keysToRemove = ["name", "salary"]
```

Expected output:

{'city': 'New york', 'age': 25}

130. Given the following dictionary:

```
inventory = {
'gold' : 500,
'pouch' : ['flint', 'twine', 'gemstone'],
'backpack' : ['xylophone','dagger', 'bedroll','bread loaf']
}
```

Add a key to inventory called 'pocket'.
Set the value of 'pocket' to be a list consisting of the strings 'seashell', 'strange berry', and 'lint'.
sort()the items in the list stored under the 'backpack' key.

Then .remove('dagger') from the list of items stored under the 'backpack' key

131. Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700 (both included).
132. Write a Python program that accepts a word from the user and reverses it

133. Write a Python program to count the number of even and odd numbers from a series of numbers.

    numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9)

134. Write a Python program to create the multiplication table of a number.
135. Write a Python program to find the median of three values.
136. Write a Python program to check whether a triangle is equilateral, isosceles, or scalene.
137. .Write a Python program, to sum up, two given integers. However, if the sum is between 15 to 20 it will return 20.
138. Write a Python program to check whether an alphabet is a vowel or consonant.
139. Write a Python program to find numbers between 100 and 400 (both included) where each digit of a number is an even number. The numbers obtained should be printed in a comma-separated sequence.
140. Write a Python program that accepts a string and calculates the number of digits and letters.
141. Write a Python program that iterates the integers from 1 to 50. For multiples of three print "Fizz" instead of the number and the multiples of five print "Buzz". For numbers that are multiples of both three and five print "FizzBuzz".
142. Write a Python program to get the Fibonacci series between 0 to 50
143. Write a Python program that prints all the numbers from 0 to 6 except 3 and 6.
144. Write a Python program that prints each item and its corresponding type from the following list.

    Sample List : datalist = [1452, 11.23, 1+2j, True, 'w3resource', (0, -1), [5, 12], {"class":'V', "section":'A'}]

145. Write a python program to accept input (a number) from the user. if the number is positive then print the number is positive, if the number is zero then print the number is zero, otherwise, print the number is negative
146. Print First 10 natural numbers using a while loop
147. Given a list iterate it and display numbers that are divisible by 5 and if you find a number greater than 150 stop the loop iteration
148. list1 = [12, 15, 32, 42, 55, 75, 122, 132, 150, 180, 200]
149. Write a Python program, to sum up, three given integers. However, if two values are equal sum will be zero.
150. Write a Python program to the sum of two given integers. However, if the sum is between 15 to 20 it will return 20.
151. Write a Python program to display your details like name, age, and address in three different lines.

    expected output
    Name: Simon
    Age: 19
    Address: Bangalore, Karnataka, India

152. Write a Python program to calculate the length of a string.
153. Write a Python program to remove spaces from a given string.
154. Write a program to find the length of the string "refrigerator" without using the len function.
155. Write a program to check if the letter 'e' is present in the word 'Umbrella'.
156. Count all lower case, upper case, digits, and special symbols from a given string
157. Capitalize the first character of a string

158. Check if a string contains only numbers
159. Write a program to find out the largest and smallest word in the string
160. Write a program to check if the two strings entered by the user are anagrams or not. Two words are said to be anagrams if the letters of one word can be rearranged to form the other word.
161. Write a program to shift every element of a list to circularly right. E.g.-
    INPUT : 1 2 3 4 5
    OUTPUT : 5 1 2 3 4
162. Given a list, write a Python program to swap the first and last elements of the list.

    Examples:

    Input : [12, 35, 9, 56, 24]
    Output : [24, 35, 9, 56, 12]
163. Sum of number digits in List
    The original list is : [12, 67, 98, 34]
    output : [3, 13, 17, 7]
164. Given two lists a, b. Check if two lists have at least one element common in them.
    Examples:
    Input : a = [1, 2, 3, 4, 5]
    b = [5, 6, 7, 8, 9]
    Output : True

Input : a=[1, 2, 3, 4, 5]
    b=[6, 7, 8, 9]
    Output : False

165. Python program to find the sum of all items in a dictionary
Input : {'a': 100, 'b':200, 'c':300}
Output : 600
nput : {'x': 25, 'y':18, 'z':45}
Output : 88

166. Print First 10 natural numbers using a while loop
167. Create a function to show employee() in such a way that it should accept the employee's name, and salary and display both. If the salary is missing in the function call assign default value 9000 to the salary
168. Write a Python program that accepts the radius of a circle from the user and computes the area.
169. Write a Python program that accepts the user's first and last name and prints them in reverse order with a space between them.
170. Write a Python program that accepts a sequence of comma-separated numbers from the user and generates a list and a tuple with those numbers.
171. Write a Python program to display the first and last colors from the following list.
color_list = ["Red","Green","White" ,"Black"]
172. Write a Python program to calculate the sum of three given numbers, if the values are equal then return three times their sum.

173. Write a Python program to find whether a given number (accepted by the user) is even or odd,
174. Write a Python program to count the number 4 in a given list.
175. Write a Python program to print out all even numbers from a given numbers list in the same order and stop the printing of any numbers that come after 237 in the sequence.

    Sample numbers list:

    ```
    numbers = [
      386, 462, 47, 418, 907, 344, 236, 375, 823, 566, 597, 978, 328, 615, 953, 345,
      399, 162, 758, 219, 918, 237, 412, 566, 826, 248, 866, 950, 626, 949, 687, 217,
      815, 67, 104, 58, 512, 24, 892, 894, 767, 553, 81, 379, 843, 831, 445, 742, 717,
      958,743, 527  ]
    ```

176. Write a Python program to print out a set containing all the colors from color_list_1 which are not present in color_list_2.

    Test Data:
    color_list_1 = set(["White", "Black", "Red"])
    color_list_2 = set(["Red", "Green"])
177. Write a Python program that will accept the base and height of a triangle and compute the area.
178. Write a Python program to create a tuple.
179. Write a Python program to create a tuple with different data types.
180. Write a Python program to create a tuple with numbers and print one item.
181. Write a Python program to unpack a tuple in several variables.
182. Write a Python program to add an item to a tuple.
183. Write a Python program to convert a tuple to a string.
184. Write a Python program to get the 4th element and 4th element from the last of a tuple.
185. Write a Python program to check whether an element exists within a tuple.
186. Write a Python program to convert a list to a tuple.
187. Write a Python program to remove an item from a tuple.
188. Write a Python program to find the length of a tuple.
189. Create a tuple with a single item of 50
190. Copy element 44 and 55 from the following tuple into a new tuple
191. tuple1 = (11, 22, 33, 44, 55, 66)
192. Modify the first item (22) of a list inside a following tuple to 222
    tuple1 = (11, [22, 33], 44, 55)
    Expected output:
    tuple1 = (11, [222, 33], 44, 55)
193. Counts the number of occurrences of item 50 from a tuple
    tuple1 = (50, 10, 60, 70, 50)
194. Write a Python function to find the Max of three numbers.
195. Write a Python function to sum all the numbers in a list.

Sample List : (8, 2, 3, 0, 7)

196. Write a Python function to multiply all the numbers in a list.
Sample List : (8, 2, 3, -1, 7)
197. Write a Python function to calculate the factorial of a number.
198. Write a Python function to check whether a number is in a given range
199. Write a Python function that accepts a string and calculates the number of upper case letters and lower case letters.
200. Write a Python function that takes a number as a parameter and checks whether the number is prime or not.
201. Write a Python program to print the even numbers from a given list.
Sample List : [1, 2, 3, 4, 5, 6, 7, 8, 9]
202. Write a Python function that checks whether a passed string is palindrome or not.
203. Subtract a week (7 days) from a given date in Python
204. Find the day of the week of a given date
205. .Calculate the number of days between two given dates
206. Python program to print the current year, month, and day
207. Python program to find the first day of a given year
208. Write a Python program to get the dates 30 days before and after the current date.
209. Write a Python program to subtract five days from the current date.
210. Write a Python script to display the various Date Time formats - Go to the editor
    a. a) Current date and time
    b. b) Current year
    c. c) Month of the year
    d. d) Week number of the year
    e. e) Weekday of the week
    f. f) Day of the year
    g. g) Day of the month
    h. h) Day of week

211. Write a Python program to get the current time in Python.
212. Write a Python program to determine whether a given year is a leap year.
213. Write a Python program to print the next 5 days starting from today.
214. Convert string into a DateTime object
215. Print the date in the following format
Day_name Day_number Month_name Year
216. print the calendar for Aug 2021
217. find 2020 is a leap year or not
218. print calendar of 2000
219. The Isoformat() function is used to return a string of date, time, and UTC offset to the corresponding time zone in ISO 8601 format.
220. July 22 2019 03:25:40 print the date
221. Subtract a week (7 days) from a given date in Python
222. Find the day of the week of a given date
223. Calculate the number of days between two given dates
224. Python program to print the current year, month, and day
225. Python program to find the first day of a given year

226. Write a Python program to get the dates 30 days before and after the current date.
227. Write a Python program to subtract five days from the current date.
228. Write a Python script to display the various Date Time formats - Go to the editor
    a. a) Current date and time
    b. b) Current year
    c. c) Month of the year
    d. d) Week number of the year
    e. e) Weekday of the week
    f. f) Day of the year
    g. g) Day of the month
    h. h) Day of week
    i.
229. Write a Python program to get the current time in Python.
230. Write a Python program to determine whether a given year is a leap year.
231. Write a Python program to print the next 5 days starting from today.
232. Print the date in the following format
Day_name Day_number Month_name Year
233. Convert string into a DateTime object
234. print the calendar for Aug 2021
235. find 2020 is a leap year or not
236. The Isoformat() function is used to return a string of date, time, and UTC offset to the corresponding time zone in ISO 8601 format.
237. Write a Python program to read an entire text file.
238. write a python program to read-only parts of a file
239. write a python program to read one line of a file
240. write a python program to loop through the lines of a file to read the whole file line by line
241. Write a Python program to read a file line by line and store it into a variable.
242. Write a Python program to read a file line by line and store it in an array.
243. write a python program to get the file pointer position
244. write a python program to change the file pointer position to 5
245. Accept five names from the user and write in a file “name.txt”
246. write a python program to create a new directory
247. write a python program to remove a directory
248. write a python program to rename a file
249. write a python program to remove a file
250. Write a program to display the number of lines in a file
251. what are the key features of python
252. what is with statement in python
253. Explain Python’s parameter-passing mechanism.