**Solutions**

1.

2.

| def func\_1(\*args):  result = 1  for data in args:   result \*= data   return result print(func\_1(2,3,4,5)) |
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3.

4.

def check\_prime(number):

if number > 1:

for val in range(2, number):

if(number % val) == 0:

return False

else:

return True

else:

return False

print(check\_prime(7))

print(check\_prime(56963))

print(check\_prime(5151512515524))

5.

| from string import ascii\_lowercase LETTERS = {letter: str(index) for index, letter in enumerate(ascii\_lowercase, start=1)}   def alphabet\_position(text):  global list1  text = text.lower()  numbers = [LETTERS[character] for character in text if character in LETTERS]  data = ' '.join(numbers)  list1= data.split(' ', )  list1 = [int(i) for i in list1]  return list1  def convert\_to\_binary(list1):  final\_list = []  for data in list1:  if data % 2 != 0:  final\_list.append(True)  else:  final\_list.append(False)  return final\_list   print(alphabet\_position('ineuron')) print(convert\_to\_binary(list1)) |
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