## parameter with default argument

```
def square(a = 5): # parameter a with default argument 5
  result = a ** 2
  return result
print(square(10))
   100
print(square())
   25
def testfunction(a,b,c):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(1,2,3)
   b = 2
   c = 3
def testfunction(a = 1,b,c):
  print('a = ',a)
```

```
print('b = ',b)
  print('c = ',c)
   File <u>"<ipython-input-9-fcfe7d726350>"</u>, line 1
       def testfunction(a = 1,b,c):
    SyntaxError: non-default argument follows default argument
     SEARCH STACK OVERFLOW
def testfunction(a,b,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(10,20,30)
    a = 10
    b = 20
    c = 30
testfunction(10,20)
    a = 10
    b = 20
testfunction(10,200)
    a = 10
    b = 200
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(10,15,25)
    a = 10
    b = 15
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(10,25)
```

```
a = 10
    b = 25
    c = 1
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(10)
    a = 10
    b = 2
    c = 1
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction()
    b = 2
    c = 1
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(10,20,30,40)
    TypeError
                                      Traceback (most recent call last)
    <ipython-input-20-aea3c9375a40> in <module>
           print('c = ',c)
    ---> 6 testfunction(10,20,30,40)
    TypeError: testfunction() takes from 0 to 3 positional arguments but 4 were given
     SEARCH STACK OVERFLOW
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(c=10,a=20,b=30)
```

```
a = 20
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(c1=10,a1=20,b1=30)
    TypeError
                                         Traceback (most recent call last)
    <ipython-input-23-a7504fa4a9be> in <module>
             print('c = ',c)
    ---> 6 testfunction(c1=10,a1=20,b1=30)
    TypeError: testfunction() got an unexpected keyword argument 'c1'
     SEARCH STACK OVERFLOW
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(c=10,a=20,30)
      File <a href="cipython-input-24-13f7572de353>"</a>, line 6
        testfunction(c=10,a=20,30)
    SyntaxError: positional argument follows keyword argument
     SEARCH STACK OVERFLOW
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(a=10,a=20,30)
      File "<ipython-input-25-87ca2fd9cf2e>", line 6
        testfunction(a=10,a=20,30)
    SyntaxError: positional argument follows keyword argument
     SEARCH STACK OVERFLOW
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
```

```
print('b = ',b)
  print('c = ',c)
testfunction(a=10,a=20,a=30)
     File <a href="cipython-input-26-bb09282a98b6">", line 6</a>
       testfunction(a=10,a=20,a=30)
    SyntaxError: keyword argument repeated: a
     SEARCH STACK OVERFLOW
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(10,20,c=30)
    a = 10
    b = 20
    c = 30
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(10,b=20,c=30)
    a = 10
        20
    b =
    c = 30
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(10,b=20)
    a = 10
    b = 20
    c = 1
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
```

```
testfunction(har-10pua=320sf30s)d7212c>", line 6
       testfunction(b=10,a=20,30)
    SyntaxError: positional argument follows keyword argument
     SEARCH STACK OVERFLOW
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(10,c=20,b=30)
    a = 10
    b = 30
    c = 20
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction()
    a = 3
    b = 2
    c = 1
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(100)
    a = 100
    b = 2
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(a=100)
    a = 100
    b = 2
```

```
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(b=100)
    a = 3
    b = 100
    c = 1
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(c=100)
    a =
    c = 100
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(1,2,3)
    a = 1
    b = 2
    c = 3
def testfunction(a=3,b=2,c = 1):
  print('a = ',a)
  print('b = ',b)
  print('c = ',c)
testfunction(1,2,3,4)
    TypeError
                                      Traceback (most recent call last)
    <ipython-input-39-9ddc9e270186> in <module>
         4 print('c = ',c)
    ----> 6 testfunction(1,2,3,4)
    TypeError: testfunction() takes from 0 to 3 positional arguments but 4 were given
     SEARCH STACK OVERFLOW
```

## function definition to accept variable number of arguments

```
def test(*a):
  print(a)
test(100)
    (100,)
test(100,200)
    (100, 200)
def v_arguments(*a):
  for value in a:
    print(value,end=' ')
v_arguments(1,2,3,4,5,6,True,False,100.89,'python')
   1 2 3 4 5 6 True False 100.89 python
def testdata(a,*b):
  print(a)
  for i in b:
    print(i,end=' ')
testdata(10,20)
    10
    20
testdata(10,20,30,40)
   10
    20 30 40
def testdata(*a,b):
  print(a)
  for i in b:
    print(i,end=' ')
testdata(10,20,30)
```

## function definition to accept variable number of keyword arguments

```
def details(**a):
  print(a)
  print(type(a))
details(name='lokesh',email='lokesh@gmail.com',mobile=9390018934)
    {'name': 'lokesh', 'email': '<u>lokesh@gmail.com</u>', 'mobile': 9390018934}
    <class 'dict'>
def mydetails(**a):
  for key,value in a.items():
    print(key,value,sep=' : ')
mydetails(name='venkat',
           email='venkat@gmail.com',
           mobile=9390018934,
           address='JNTU',
           technology='c++')
    name : venkat
    email : venkat@gmail.com
    mobile: 9390018934
    address : JNTU
    technology : c++
```

# write a function to display given number is prime or not

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