In [1]:

```
for i in range (1,100,2):
    print(i,end=" ")
```

```
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53
55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99
```

In [6]:

```
for i in range(0,50,3):
    print(i,end=" ")
```

```
0 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48
```

In [8]:

```
n=int(input("enter a natural number size"))
for i in range(1,n+1):
    print(i,end=" ")
```

```
enter a natural number size10
1 2 3 4 5 6 7 8 9 10
```

In [9]:

```
n=int(input("enter a natural number size"))
for i in range(n,0,-1):
    print(i, end=" ")
```

```
enter a natural number size30
30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3
2 1
```

In [24]:

```
for i in 'Apssdc':
    if i=='d':
        break
    else:
        print(i,end=" ")
```

```
A p s s
```

In [22]:

```
for i in 'bellamkondachinnakasaiah':
    if i=='k':
        break
    else:
        print(i,end=" ")
```

```
b e l l a m
```

In [1]:

```
for i in range(1,100):
    if i==200:
        break
    else:
        print(i,end=" ")
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 2
9 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54
55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 8
0 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99
```

In [33]:

```
for i in range(2,20,2):
    print(i,end=" ")
```

```
2 4 6 8 10 12 14 16 18
```

In [36]:

```
for i in range(1,100,2):
    print(i,end=" ")
```

```
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53
55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99
```

In [37]:

```
for i in range(1,41):
    if(i%2!=0):
        continue
    else:
        print(i,end=" ")
```

```
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40
```

In [40]:

```
input:5,10
    output:-10,5
    temp=a
    temp=b
a=b
    a=10
    b=5
```

```
  File "<ipython-input-40-3feeb3a16c5f>", line 1
    input:5,10
          ^
SyntaxError: invalid syntax
```

In [41]:

```
# Let us consider two variable 's' and 't'
s = 33
t = 98

# For the swapping between two numbers to happen with the comma operator, we have to follow
s , t = t , s

print("The value of s after using comma operator is :", s)
print("The value of t after using comma operator is :", t)
```

```
The value of s after using comma operator is : 98
The value of t after using comma operator is : 33
```

In [43]:

```
a=11
b=22
a , b = b , a
print("a")
print("b")
```

```
a
b
```

In [46]:

```
# Generating a random float between two numbers
import random
print(random.uniform(10, 200))
```

```
57.43252602568455
```

In [52]:

```
# Generate a random float between 10 and 1
import random
print(random.random(10,10))
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-52-cdba0717bba7> in <module>
      1 # Generate a random float between 10 and 1
      2 import random
----> 3 print(random.random(10,10))

TypeError: random() takes no arguments (2 given)
```

In [54]:

```
# Loading the lowercase alphabet to a list
import string
alphabet = list(string.ascii_uppercase)
print(alphabet)
```

```
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O',
'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z']
```

In [71]:

```
import string
print(alphabet)
```

```
['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o',
'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z', 'A', 'B', 'C', 'D',
'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S',
'T', 'U', 'V', 'W', 'X', 'Y', 'Z']
```

In [56]:

```
import string
alphabet = list(string.ascii_letters)
print(alphabet)
```

```
['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o',
'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z', 'A', 'B', 'C', 'D',
'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S',
'T', 'U', 'V', 'W', 'X', 'Y', 'Z']
```

In [72]:

```
# importing date class from datetime module
from datetime import date

# creating the date object of today's date
todays_date = date.today()

# printing todays date
print("Current date: ", todays_date)

# fetching the current year, month and day of today
print("Current year:", todays_date.year)
print("Current month:", todays_date.month)
print("Current day:", todays_date.day)
```

```
Current date:  2022-09-29
Current year: 2022
Current month: 9
Current day: 29
```

In [73]:

```
import year
print("current year:", today_date.year)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-73-8967a1e8ae11> in <module>
----> 1 print("current year:", today_date.year)

NameError: name 'today_date' is not defined
```

In [3]:

```
import calendar
year=2022
month=9
print(calendar.month(year,month))
```

```
   September 2022
Mo Tu We Th Fr Sa Su
          1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30
```

In [5]:

```
import calendar
year=2001
month=6
day=15
print(calendar.month(year,month,day))
```

```
                                  June 2001
     Monday          Tuesday        Wednesday         Thursday         Friday
Saturday         Sunday
                                                                           1
2               3
        4               5               6               7               8
9               10
       11               12              13              14              15
16              17
       18               19              20              21              22
23              24
       25               26              27              28              29
30
```

In [6]:

```
import calendar
year=2001
month=8
day=16
print(calendar.month(year,month,day))
```

```
                                    August 2001
     Monday          Tuesday         Wednesday         Thursday          Fri
day          Saturday          Sunday
                                             1                2
3                4                5
        6                7                8                9                1
0               11               12
       13               14               15               16               1
7               18               19
       20               21               22               23               2
4               25               26
       27               28               29               30               3
1
```

In [ ]:

```
n1=int(input("enter n1 value"))
n2=int(input("enter n2 value"))
def addition(a,b):
    c=a+b
    return c
addition(n1,n2)
```

In [5]:

```
n1=int(input("enter n1 value"))
n2=int(input("enter n2 value"))
def add(a,b):
    c=a+b
    return c
add(n1,n2)
```

```
enter n1 value10
enter n2 value10
```

Out[5]:

```
20
```

In [ ]:

```
n1=int(input("enter n1 value"))
n2=int(input("enter n2 value"))
def add (a,b):
    c=a+b
    return c
add(n1,n2)
```

In [6]:

```
n1=int(input("enter n1 value"))
n2=int(input("enter n2 value"))
def subtraction(a,b):
    c=a-b
    return(c)
subtraction(n1,n2)
```

```
enter n1 value80
enter n2 value40
```

Out[6]:

```
40
```

In [7]:

```
n1=int(input("enter n1 value"))
n2=int(input("enter n2 value"))
def multiplication(a,b):
    c=a*b
    return(c)
multiplication(n1,n2)
```

```
enter n1 value43
enter n2 value65
```

Out[7]:

```
2795
```

In [8]:

```
n1=int(input("enter n1 value"))
n2=int(input("enter n2 value"))
def division(a,b):
    c=a|b
    return(c)
division(n1,n2)
```

```
enter n1 value645
enter n2 value7856
```

Out[8]:

```
7861
```

In [7]:

```
n1=int(input("enter n1 value"))
n2=int(input("enter n2 value"))
def subtraction(a,b):
    c=a-b
    return(c)
subtraction(n1,n2)
```

```
enter n1 value23
enter n2 value45
```

Out[7]:

```
-22
```

In [13]:

```
def multiplication():
    a=76
    b=21
    multi=a*b
    return multi
print("after calling the multiplication:",multiplication())
```

```
after calling the multiplication: 1596
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: