To Print the Natural Numbers From 1 To 10 Using for loop

In [50]:

```
for i in range(11):
    print(i,end=" ")
```

```
0 1 2 3 4 5 6 7 8 9 10
```

To print the odd numbers from 1 to 100 by using for loop

In [56]:

```
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 [ ]:

```
# to print the 0 to 50 elements splitting to 3
```

In [58]:

```
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
```

To print the 1 to n natural numbers in ascending order

In [64]:

```
n=int(input("Enter a Natural Number Size "))
for i in range(n,0,-1):
    print(i,end=" ")
```

```
Enter a Natural Number Size 10
10 9 8 7 6 5 4 3 2 1
```

Break statement Example in Python

In [66]:

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

```
a p s s
```

In [67]:

```
# TO PRINT THE RANGE OF 1 TO 10 BREAK WITH 5

for i in range(1,10):
    if i==5:
        break
    else:
        print(i,end=" ")
```

```
1 2 3 4
```

In [ ]:

```
# TO PRINT THE EVEN NUMBERS IN BETWEEN 1 TO 20 BY USING CONTINUE KEYWORD
```

In [71]:

```
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 [75]:

```
# swap between two numbers

a=10
b=5
print("Before Swapping:a Value",a)
print("Before Swapping:b Value",b)
temp=a
#temp=10
a=b
# b=5
b=temp
#b=10
print("After Swapping:a Value",a)
print("After Swapping:b Value",b)
```

```
Before Swapping:a Value 10
Before Swapping:b Value 5
After Swapping:a Value 5
After Swapping:b Value 10
```

In [83]:

```
# How to generate a random number in python
import random
print(random.randint(0,8))
```

```
2
```

In [85]:

```
# How to generate a random number in python
import random
print(random.randint(10,99))
```

```
90
```

In [ ]:

```
# genearte a alphabets from lowercase and uppercase
```

In [95]:

```
import string

for letter in string.ascii_lowercase:
    print(letter,end=" ")
for letter in string.ascii_uppercase:
    print(letter,end=" ")
```

```
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 [ ]:

```
# programm to display calendar of the current year and month
```

In [102]:

```
import calendar
year=2022a
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 [103]:

```
import calendar
print(calendar.month(1999,12))
```

```
   December 1999
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 31
```

In [104]:

```
import calendar
print(calendar.month(2022,12))
```

```
   December 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 31
```

In [105]:

```
def adding():
    a=20
    b=30
    sum=a+b
    print("after calling:",sum)
adding()
```

```
after calling: 50
```

In [110]:

```
def multiplication():
    a = 10
    b = 25
    multi = a * b
    return multi
print(" after calling the multiplication:",multiplication())
```

```
 after calling the multiplication: 250
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: