```
In [6]:
```

```
userid=int(input('Enter userid: '))
if(userid>=100 and userid<=200):
    password=input('Enter Password: ')
    if(password=='apssdc@123'):
        print("Welcome")
    else:
        print("Invalid Password")
else:
    print("Invalid userid")</pre>
```

Enter userid: 56 Invalid userid

Loops

```
In [ ]:
```

```
# why we use loops
```

In [10]:

```
print("apssdc")
print("apssdc")
print("apssdc")
print("apssdc")
print("apssdc")
.
.
.
.
```

apssdc apssdc apssdc apssdc apssdc

In []:

```
loops: for loop
while loop
```

In []:

```
In [ ]:
```

```
for loop syntax:
    for value in range(start,end,stepcount(or)increase/decrease):
        statements
```

```
In [ ]:
```

In [19]:

```
# print your name 20 times
for s in range(20):
    print("python",end=' ')
```

python python

In [15]:

1 2 3 4 5 6 7 8 9 10

```
In [22]:
```

```
# 10 to 1 numbers printing
for i in range(10,0,-1):
    print(i,end=' ')
```

10 9 8 7 6 5 4 3 2 1

```
In [23]:
```

```
# 10 8 6 4 2
for i in range(10,0,-2):
    print(i,end=' ')
```

10 8 6 4 2

```
In [24]:
```

```
# 10 7 4 1
for i in range(10,0,-3):
    print(i,end=' ')
```

10 7 4 1

```
In [27]:
# 1 3 5 7 9
for i in range(1,10,2):
    print(i,end=' ')
1 3 5 7 9
In [31]:
for i in range(11):
    print(i,end=' ')
0 1 2 3 4 5 6 7 8 9 10
In [ ]:
# i/p: 100
# o/p: 1 2 3 ......
In [42]:
n=int(input())
for i in range(1,n+1):
    print(i,end=' ')
100
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 99 100
In [45]:
# apssdc
n="apssdc"
            #apssdc
for i in n:
    print(i,end=' ') # a p s s d c....
apssdc
In [44]:
for i in range(1,10):
    print(i,end=' ')
```

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

```
In [52]:
```

```
# 1 to 5 numbers # 1 2 3 4 5
# total=15
                    1+2+3+4+5=15
total=0
for i in range(1,6): # 1
                       2
                             3
                                   4
   total=total+i # 0+1=1 1+2=3 3+3=6
                                  6+4=10 10+5=15
print(total)
                # 1
                      3
                             6
                                    10
                                           15
```

15

```
In [53]:
```

10

1 2 5 10

In [56]:

10

factorial= 3628800

In [60]:

```
# prime number
# i/p: 3
# o/p: prime number
# 3= 1,3=2 1,5
                 1,7 1,11 1,13 1,17
n=int(input())
for i in range(1,n+1): # 1 2 3 1
                                                                              5
                                       2
   if(n%i==0):
                      # 5\%1 == 0(T)
                                      5\%2 = 0(F) 5\%3 = 0(F) 5\%4 = 0(F)
                                                                            5%5==0(
       fc=fc+1
                                                                                1+1
                             0+1=1
if(fc==2):
           (T)
   print("Prime Number")
else:
   print("Not Prime Number")
```

5

Prime Number

```
In [61]:
```

```
# table
# I/P: 5
# O/P: 5 X 1 = 5
5 X 2 = 10
.
.
5 X 10 = 50
```

```
File "<ipython-input-61-ef0f333b13b6>", line 4
5 X 2 =10
```

IndentationError: unexpected indent

In [65]:

```
n=int(input())
for i in range(1,11):
    print(n,'X',i,'=',n*i)
```

```
7
7 X 1 = 7
7 X 2 = 14
7 X 3 = 21
7 X 4 = 28
7 X 5 = 35
7 X 6 = 42
7 X 7 = 49
7 X 8 = 56
7 X 9 = 63
7 X 10 = 70
```

In []: