```
In [14]:
           1 name=input()
           2 a=name[0]
           3 b=name[-1]
           4 c=len(name)-2
           5 d=c*"*"
             print(a,d,b)
         siddhardha
         s ***** a
In [23]:
           1 | dic={'dhf':'ggu','dyhd':'ghg'}
           2 dic.pop('dhf')
           3 print(dic)
         {'dyhd': 'ghg'}
In [33]:
           1 print("I am",input())
         siva
         I am siva
In [ ]:
           1 a=input()
           2 print(a)
```

## **Conditional statements**

- if
- if else
- elif
- · nested if

```
In [42]:
           1 n=int(input())
              if(n>0):
           2
                  print('positive')
           3
          -5
              ## Syntax for if else statement
           1
           2
             if(condition):
           3
                  statement
           4
              else:
           5
                  statement
In [50]:
              a=int(input())
           2
              if(a>18):
                  print("eligible for vote")
           3
           4
              else:
           5
                  print("not eligible for vote")
           6
         19
         eligible for vote
In [52]:
              a=int(input())
             if(100<a<200):
           2
           3
                  print("exist")
           4
              else:
           5
                  print("does not exist")
           6
         203
         does not exist
In [54]:
             a=int(input())
           2 b=int(input())
           3 if(a>b):
                  print(a,"a is big")
           5
              else:
           6
                  print(b,"b is big")
         5
         6 b is big
In [55]:
           1 a=6
           2
             а
Out[55]: 6
```

```
In [58]:
           1 a=int(input())
           2 b=int(input())
           3 c=int(input())
           4
              if(a>b and a>c):
           5
                  print(a,"is big")
           6
              elif(b>c):
           7
                  print(b,"is big")
           8
              else:
           9
                  print(c,"is big")
          10
          25
         45
         79
          79 is big
In [10]:
              a=int(input())
           2
              if(90<=a<=100):
                  print("Excellent")
           3
              elif(80<=a<=89):
           4
           5
                  print("A Grade")
              elif(70<=a<=79):
           6
           7
                  print("B Grade")
           8
              elif(60<=a<=69):
                  print("C Grade")
           9
          10
              elif(50<=a<=59):</pre>
                  print("D Grade")
          11
          12
              elif(a<=49):
                  print("fail")
          13
          14
              else:
          15
                  print("Invalid marks")
         88
         A Grade
In [21]:
              ch=input()
              vowels="aeiouAEIOU"
           3
              if ch in vowels:
           4
                  print("vowel")
           5
              else:
           6
                  print("consonant")
          vowel
```

localhost:8888/notebooks/Documents/Python workshop/day 3.ipynb

```
In [4]:
             month=input()
             a=["April","June","September","November"]
          2
          3 b=["January", "March", "May", "July", "August", "October", "December"]
          4
             if month in a:
                 print(month," has 30 days")
          5
          6
             elif month in b:
          7
                 print(month," has 31 days")
             elif(month=="february"):
          8
          9
                 print(month, "has 28 or 29 days")
         10
             else:
         11
                 print("invalid month")
         12
```

April has 30 days

```
In [20]:
            1
               a=int(input())
               if(a%2==0):
            2
                   print(a,"is even")
            3
            4
                   if(a>10):
            5
                        print(a**3)
            6
                   else:
            7
                        print(a**2)
            8
               else:
                   print(a, "odd")
            9
           10
```

24 24 is even 13824

## Loops

1.for loop
2.while loop

## for loop syntax

for value in range(start,end,stepcount)

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 29 3
0 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 80 81 82 8
3 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

```
In [ ]:
             1 num=int(input())
                for i in range(1,num+1,2):
             2
                     print(i,end=' ')
             3
 In [6]:
             1 num=int(input())
             2
                for i in range(1,21):
             3
                     print(num,"x",i,"=",num*i)
           20
           20 \times 1 = 20
           20 \times 2 = 40
           20 \times 3 = 60
           20 \times 4 = 80
           20 \times 5 = 100
           20 \times 6 = 120
           20 \times 7 = 140
           20 \times 8 = 160
           20 \times 9 = 180
           20 \times 10 = 200
           20 \times 11 = 220
           20 \times 12 = 240
           20 \times 13 = 260
           20 \times 14 = 280
           20 \times 15 = 300
           20 \times 16 = 320
           20 \times 17 = 340
           20 \times 18 = 360
           20 \times 19 = 380
           20 \times 20 = 400
 In [8]:
             1 j=int(input())
             2 for i in range(1,j+1):
             3
                     if(j%i==0):
                          print(i,end=' ')
             4
           20
           1 2 4 5 10 20
In [15]:
             1 k=int(input())
             2 f=1
             3 for j in range(1,k+1):
                     f=f*j
             4
             5
                print(f)
           5
           120
 In [ ]:
             1 a=int(input())
             2 for i in range(1,a)
```