```
## write a program to print prime numbers in given range by using function the range value is
def prime(a,b):
  for i in range(a,b+1):
    sum=0
    for n in range(1,i+1):
      if i%n==0:
          sum=sum+1
    if sum==2:
        print(i)
a=int(input())
b=int(input())
prime(a,b)
```

```
    25
    50
    29
    31
    37
    41
    43
    47
```

```
## write a program to read any month in integer and display days for that month
a=int(input())
if (a==1 or a==3 or a==5 or a==7 or a==8 or a==10 or a==12):
  print("31 days")
elif (a==4 or a==6 or a==9 or a==11):
  print("30 days")
elif(a==2):
  print("28 days")
else:
  print("no months")
```

```
    3
    31 days
```

```
## write a python program to print even length words in a string
## input "this is python class"
## output "This is python"
s =  "This is python class"
s=s.split(' ')
for x in s:
  if len(x)%2==0:
    print(x,end=' ')
```

```
    This is python
```

```
## a. write a python program to capitalize the first and last letter of each word
```

```
a=str(input())
b=a.split(' ')
z=(" ")
for i in b:
  x=i.capitalize()
  y=i[-1].capitalize()
  z=x[0:-1]+y
  print(z, end=" ")
```

```
    hlo i am alone
    HlO I AM AlonE
```

```
## b. write a program to read a string from user display first character of each word with ca
a=str(input())
b=a.split()
for i in b:
  x=i.capitalize()
  print(x)
```

```
    hlo i am alone
    Hlo
    I
    Am
    Alone
```

```
##  write a python program to convert a list of multiple integers into a single integer
## input [11,33,50]
## output [113350]
a=eval(input())
b=" "
for i in a:
  b+=str(i)
print(b)
```

```
    [11,33,50]
     113350
```

```
## DAY 2
## write a python program to find power of number with recursion and without recursion
## input N=2 , P=3
## output : 8
n=int(input())
p=int(input())     ## without recursion
k=print(pow(n,p))
```

```
        2
        3
        8
```

```python
## with recursion
def power(n,p):
  if p==0:
    return 1
  if p!=0:
    return(n*power(n,p-1))
n=int(input())
p=int(input())
print(power(n,p))
```

```python
## write a program to sort tuples by total digits
## input : list=[(3,4,6,723),(1,2),(134,234,34)]
## output : ascending order output
lists=[(3,4,6,723),(1,2),(134,234,34)]
lists.sort()
lists
```

```
    [(1, 2), (3, 4, 6, 723), (134, 234, 34)]
```

```python
## take 5 subjects marks from user and display the grade of the student
## condition: if average is 90-100 A+
a=int(input())
b=int(input())
c=int(input())
d=int(input())
e=int(input())
avg=(a+b+c+d+e)/5
if avg>=90:
  print("a grade")
elif avg>=80:
  print("b grade")
elif avg>=70:
  print("c grade")
elif avg>=60:
  print("d grade")
else:
  print("fail")
```

```
        98
        85
        89
        98
        95
        a grade
```

```python
## write a python program that prints one if all the three given numbers are in ascending ord
a=float(input())
b=float(input())
c=float(input())
if a<b and b<c and a<c:
  print("1")
else:
  print("0")
```

```
    2
    3
    6
    1
```

```python
## check given number is perfect number or not
a=int(input("Enter a number "))
s=0
for i in range (1,a):
  if a%i==0 :
    s+=i
  if s==a:
   print("It's perfect")
else:
   print("It's not perfect")
```

```
    Enter a number 34
    It's not perfect
```

```python
## check the given string is palindrome or not
a=input()
b=a[::-1]
if(a==b):
  print("palin")
else:
  print("not a palin")
```

```
    alla
    palin
```

```python
## print sum of even digits in a given number
a=int(input("Enter a number "))
s=0
for i in range (a):
  r=a%10
  if r%2==0:
    s+=r
  a=a//10
print(s)
```

```
      Enter a number 4
      4
```

write a program to calculate sum of squares of digits of a number given by user123 1^2+2^2

```python
n=int(input())
a=[]
for i in range (n+1):
  for j in range(i):
    a.append(i)
print(a)
```

```
      1
      [1]
```

given a string s,
input:abcdefcba. how many times ith output ith output is 3
print count back matches

```python
a=input("Enter a word ")
s=0
l=len(a)//2
for i in range(l):
   x=a[i]
   y=a[-(i+1)]
   if x==y :
      s+=1
print(s)
```

```
      Enter a word python
      0
```

given an integer n,returning a list contaning 11223334444 and finally n repeated n times(n
print(repeatnumber(4))

```python
n=int(input("enter your number :"))
a=[]
for i in range (n+1):
   for j in range (i):
      a.append(i)
print(a)
```

```
      enter your number :4
      [1, 2, 2, 3, 3, 3, 4, 4, 4, 4]
```

print number of vowels and consonants in a string

```python
a=input("Enter a word ")
a=a.lower()
c,v=0,0
if a.isalpha() :
  for i in range (len(a)):
```

```
      if a[i]=="a" or a[i]=="e" or a[i]=="i" or a[i]=="o" or a[i]=="u" :
        v+=1
      else :
        c+=1
    print(f"vowels are {v} and consonants are {c}")
  else :
    print("Not possible")
```

```
    Enter a word alone
    vowels are 3 and consonants are 2
```

given two integers a and b if a is less than, print all numbers between ascending order.if

```
a= int(input("enter a :"))
b= int(input("enter b :"))
if a < b :
 for i in range (a,b+1):
  print(i,end = " ")
if a > b :
 while a>=b :
   print(a, end = " ")
   a-=1
```

```
    enter a :5
    enter b :9
    5 6 7 8 9
```

write a program to count the number of strings where the string length is two or more and

```
a=input("Enter a word ")
if a[0]==a[-1]:
  print("Yes")
else :
  print("No")
```

```
    Enter a word python
    No
```

take input no.of days ; no.of roundtrips if in a month no.of distance covered > 40000 prin
dc >40000 print "good jab"

```
a=int(input("Enter days "))
b=int(input("Enter round trips/day "))
c=a*b*6000
if c>= 40000 :
 print("Good job")
else :
 print("Need to walk more")
```

```
    Enter days 7
    Enter round trips/day 2
    Good job
```

```
## given a list of students and a character ,display the names of students whose first letter
n=input("Enter letter to be verified ")
n=n.lower()
r=[]
s=0
for i in range(int(input("Enter no. of students "))):
 a=input(f"Enter name of student no. {i+1} ")
 a=a.lower()
 p=a[0]
 if n==p :
  s+=1
  r.append(a)
print(f"Total {s} students matched\nThey are {r}")
```

```
    Enter letter to be verified k
    Enter no. of students 3
    Enter name of student no. 1 kaushik
    Enter name of student no. 2 krishna
    Enter name of student no. 3 keerthi
    Total 3 students matched
    They are ['kaushik', 'krishna', 'keerthi']
```

```
## given a list of city names whose length is greater than given length
l=int(input("Enter length to be exceeded "))
u=[]
for i in range(int(input("Enter no. of cities "))):
  c=input(f"Enter name of city no.{i+1} ")
  a=len(c)
  if a>l:
    u.append(c)
print(f"required cities are {u}")
```

```
    Enter length to be exceeded 5
    Enter no. of cities 4
    Enter name of city no.1 Delhi
    Enter name of city no.2 Mumbai
    Enter name of city no.3 Visakhapatnam
    Enter name of city no.4 Chennai
    required cities are ['Mumbai', 'Visakhapatnam', 'Chennai']
```

✓ 17s   completed at 10:23 PM   ● ✕