```
#nth fibnocci
def Fibonacci(n):
  if n<= 0:
    print("Incorrect input")
  elif n == 1:
    return 0
  elif n == 2:
    return 1
  else:
    return Fibonacci(n-1)+Fibonacci(n-2)
print(Fibonacci(8))
```

```
13
```

```
def prime(a,b):
   a=int(input("enter"))
   b=int(input("enter"))
   for i in range(a,b+1):
     k=0
     for j in range(2,i):
       if i%j==0:
           k+=1
     if k==0:
       print(i)
(prime(a,b))
```

```
enter25
enter50
29
31
37
41
```

Saved successfully!

```
#print even words
s="my name is manaswini"
s=s.split(' ')
for x in s:
  if len(x)%2==0:
          print(x,end="")
```

```
mynameis
```

```
#month number display
a=int(input("enter month num"))
b=[4,6,9,11]
if a==2:
```

```
  print("28 or 29")
elif a in b:
  print("30")
elif a>=13 or a<1:
  print("enter")
else:
  print("31")
```

```
enter month num6
30
```

```
#single int from multi int
a=eval(input("enter"))
b=""
for i in a:
  b+=str(i)
print(b)
```

```
enter[12,13,14]
121314
```

```
#first letters caps
word="my name is manu"
x=word.title()
print(x)
```

```
My Name Is Manu
```

```
#first and last caps
str=input("enter")
str=str[0:1].upper()+str[1:len(str)-1]+str[len(str)-1:len(str)].upper()
print(str)
```

Saved successfully!

```
#gcd
def gcd(a,b):
    if(b==0):
        return a
    else:
        return gcd(b,a%b)
a=int(input("Enter first number:"))
b=int(input("Enter second number:"))
GCD=gcd(a,b)
print("GCD is: ")
print(GCD)
```

```
#power of a number
def power(N, P):
    if P == 0:
        return 1
    return (N*power(N,P-1))
N = 2
P = 3
print(power(N, P))
```

```
8
```

```
#perfect
num=int(input("enter num"))
sum=0
for i in range (1,num):
      if(num%i==0):
           sum=sum+i
if(sum==num):
     print("perfect")
else:
  print("not")
```

```
enter num23
not
```

```
#match 1 and last
def match_words(words):
  ctr = 0

  for word in words:
    if len(word) > 1 and word[0] == word[-1]:
```

Saved successfully!

```
print(match_words(['abc', 'xyz', 'aba', '1221']))
```

```
2
```

```
#sum of squares of given numbers
num = int(input("enter"))

sum = 0
while num!=0:
    rem = num%10
    sqr = rem*rem
    sum = sum+sqr
    num = int(num/10)
```

```
print("\nSum of squares of digits of given number is: ")
print(sum)
```

```
enter123

Sum of squares of digits of given number is:
14
```

```
#product of numbers
def product(num1,num2):
    if(num1<num2):
        return product(num2,num1)
    elif(num2!=0):
         return(num1+product(num1,num2-1))
    else:
         return 0
num1=int(input("Enter first number: "))
num2=int(input("Enter second number: "))
print("product is: ",product(num1,num2))
```

```
Enter first number: 123
Enter second number: 23
product is:  2829
```

```
#print 1 if in ascending
a=int(input("enter"))
b=int(input("enter"))
c=int(input("enter"))
if a<b<c:
  print(1)
else:
  print(0)
```

Saved successfully!

```
enter1
enter4
0
```

```
#if length>3 print word27 Give a list of city names whose length is greater than a given leng
#str len =3
#print(cityNmes(['Vizag','Agra','Hyderabad','Delhi']))=
test_list = ['Vizag','Agra','Hyderabad','Delhi']
K = 3
res = ''
for ele in test_list:
    if len(ele) >3 :
        res += ele
```

```
print(res,end=" ")
```

```
     VizagAgraHyderabadDelhi
```

```
#6km ground#25 There is a walking track of 3 km (roundtrip means 3+3=6km).
'''take input from user no. of days, followed by no of roundtrips in 1 day
find total distance he covers in m
if round trip:
<40000m need to walk more
>=40000m you done a great job!
'''
d=int(input("Enter number of days: "))
t=int(input("Enter number of roundtrips per day: "))
dist=d*t*6000
print(dist)
if dist<40000:
  print("need to walk more.")
else:
  print("Great job!")
```

```
     Enter number of days: 1
     Enter number of roundtrips per day: 3
     18000
     need to walk more.
```

```
#vowels and consonants
str1 = input("Please Enter Your Own String : ")
vowels = 0
consonants = 0

for i in str1:
    if(i == 'a' or i == 'e' or i == 'i' or i == 'o' or i == 'u'
                                == 'I' or i == 'O' or i == 'U'):
        vowels = vowels + 1
    else:
        consonants = consonants + 1

print("Total Number of Vowels in this String = ", vowels)
print("Total Number of Consonants in this String = ", consonants)
```



```
     Please Enter Your Own String : manu
     Total Number of Vowels in this String =  2
     Total Number of Consonants in this String =  2
```

```
#max of 3 numbers
def maximum(a, b, c):
    if (a >= b) and (a >= c):
```

```
        largest = a

    elif (b >= a) and (b >= c):
        largest = b
    else:
        largest = c
    return largest
a = 10
b = 14
c = 12
print(maximum(a, b, c))
```

```
14
```

```
# If A<B, print all numbers from A to B in ascending order else(A>=B) in descending order
A=int(input("Enter A: "))
B=int(input("Enter B: "))
if A<B:
  for i in range(A,B+1):
    print(i)
else:
  for i in range(A,B-1,-1):
    print(i)
```

```
Enter A: 7
Enter B: 3
7
6
5
4
3
```

```
#5 subjects grades
```

Saved successfully!

```
s4=int(input("enter"))
s5=int(input("enter"))
avg=s1+s2+s3+s4+s5/5
if(avg>=90):
     print("pass")
elif (avg>=80 and avg<=90):
    print("a")
elif (avg>=70 and avg<=80):
    print("b")
elif (avg>=60 and avg<=70):
    print("c")
else:
    print("f")
```

```
#prime or not
def isPrime(n):
    if n <= 1:
        return False
    for i in range(2, n):
        if n % i == 0:
            return False;
    return True
n=int(input("enter"))
print("true") if isPrime(n) else print("false")
```

```
 enter1
 false
```

```
#sort tuples in ascending order
a=[(3,4,6,723),(1,2),(134,234,34)]
a.sort()
print(a)
```

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

```
#palindrome
def isPalindrome(s):
    rev = ''.join(reversed(s))
    if (s == rev):
        return True
    return False
s = "mada"
ans = isPalindrome(s)
```

Saved successfully!

```
else:
    print("No")
```

```
 No
```

```
#16 print sum of even digits in a given number
n=int(input("Enter number: "))
sum=0
while(n>0):
  rem=n%10
  if(rem%2==0):
    sum=sum+rem
```

```
n=n/10
print(sum)
```

```
#palindome

num = int(input("Enter a value:"))
temp = num
rev = 0
while(num > 0):
    dig = num % 10
    revrev = rev * 10 + dig
    numnum = num // 10
if(temp == rev):
    print("This value is a palindrome number!")
else:
    print("This value is not a palindrome number!")
```

```
#print the  words if entered an alphabet
names=['Manu','jahnavi','manaswini','deepika']
firstletter=['m']
output=[name for name in names if(name[0] in firstletter)]
output
```

```
['manaswini']
```

Saved successfully!

✓ 0s completed at 23:30