



anjalip1 - Colaboratory
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anjalip1



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```
print("welcome")
```



welcome



anjalip2

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```
num=int(input("Enter a number"))
if num>0:
    print("positive number")
else:
    print("negative number")
```

Enter a number-2
negative number



anjalip3

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```
num=int(input("Enter a number"))
if num%2==0:
    print("even number")
else:
    print("odd number")
```



Enter a number
1
odd number



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```
mark=int(input("Enter mark:"))
if mark>90 and mark<=100:
    print("A+")
elif mark>80 and mark<=90:
    print("A grade")
elif mark>70 and mark<=80:
    print("B grade")
elif mark>60 and mark<=70:
    print("C grade")
elif mark>50 and mark<=60:
    print("D grade")
else:
    print("Failed")
```

Enter mark:66

C grade



anjalip5

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```
age=int(input("Enter a age"))
if age>18:
    print("eligible to vote")
else:
    print("not eligible to vote")
```



Enter a age20
eligible to vote



anjalip6



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```
i=1
while(i<=10):
    print(i)
    i=i+1
```

1
2
3
4
5
6
7
8
9
10



anjalip7



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```
i=10
while(i>=1):
    print(i)
    i=i-1
```

10
9
8
7
6
5
4
3
2
1



anjalip8

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```
n=int(input("Enter a number:"))
i=1
while(i<=10):
    print(n,"*",i,"=",n*i)
    i=i+1
```

Enter a number:5

5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50



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```
n=int(input("Enter a number:"))
for i in range(1,11):
    c=n*i
    print(n,"*",i,"=",c)
```

Enter a number:5

5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50



anjalip10

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```
sum=0
list=(10,20,40,30)
for i in list:
    sum=sum+i
print("Sum of all elements in given li
```

→ um of all elements in given list: 100



anjalip12



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```
n=int(input("Enter the number:"))
for i in range(2,n,2):
    print(i)
```





anjalip13

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```
list=[1,2,4,6,3,9,10,]  
ecount=0  
ocount=0  
for i in list:  
    if not i % 2:  
        ecount+=1  
    else:  
        ocount+=1  
print("Number of even numbers:",ecount)  
print("Number of odd numbers:",ocount)
```

Number of even numbers: 4

Number of odd numbers: 3



anjalips14



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```
p,q=0,1
while q<50:
    print(q)
    p,q=q,p+q
```

1
1
2
3
5
8
13
21
34



function

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```
def add_numbers(n1,n2):
    sum=n1+n2
    return sum
def multiply_numbers(n1,n2):
    product=n1*n2
    return product
x=5
y=10
sum=add_numbers(x,y)
print("sum is",sum)
product=multiply_numbers(x,y)
print("product is",product)
```

sum is 15
product is 50



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```
for i in range(0,5):
    for j in range(i):
        print("1", end="")
    print()
```

1
11
111
1111

```
[ ] for i in range(0,6):
    num=1
    for j in range(i):
        print(num, end="")
    num=num+1
print()
```

1
12
123
1234
12345



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```
#factorial of a number
n=int(input("Enter a number:"))
f=1
i=1
if(n==0):
    print("Factorial of 0=1")
else:
    while(i<=n):
        f=f*i
        i=i+1
    print("factorial=",f)
```

Enter a number:5
factorial= 120

```
[ ] #prime or not
n=int(input("Enter a number:"))
if(n>1):
    for i in range(2,n):
        if(n%i==0):
            print(n,"is not a prime number")
            break
        else:
            print(n,"is a prime number")
```

Enter a number:14
14 is not a prime number



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```
[ ] #palindrome or not
n=int(input("Enter a number:"))
rev=0
num=n
while(n!=0):
    rem=n%10
    rev=rev*10+rem
    n=int(n/10)
if(num==rev):
    print("Palindrome")
else:
    print("Not palindrome")
```

Enter a number:121
Palindrome

```
[ ] #armstrong or not
n=int(input("Enter a number:"))
sum=0
temp=n
while(temp>0):
    digit=temp%10
    sum+=digit**3
    temp//=10
if(sum==n):
    print(n,"is an armstrong number")
else:
    print(n,"is not an armstrong number")
```

Enter a number:153
153 is an armstrong number



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```
[ ] #program to find factors of a number
n=int(input("Enter a number"))
for i in range(1,n+1):
    if(n%i==0):
        print(i)
```

Enter a number24

1
2
3
4
6
8
12
24



≡ anjalip30



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```
def rev(str):  
    return str[::-1]  
str=input("Enter a string:")  
reverse=rev(str)  
print(reverse)
```

Enter a string:hello world
dlrow olleh

```
[ ] def factorial(n):  
    if n==0:  
        return 1  
    else:  
        return n*factorial(n-1)  
n=int(input("Enter a number:"))  
print(factorial(n))
```

Enter a number:4
24

```
[ ] def prime(n):  
    if n==1:  
        return False  
    elif n==2:  
        return True  
    else:  
        for x in range(2,n):  
            if(n%x==0):  
                return False  
        return True  
print(prime(10))
```

False



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```
#program to display given pyramid
for i in range(1,5):
    for j in range(i):
        p=i*(j+1)
        print(p, end=' ')
print()
```

```
1
2 4
3 6 9
4 8 12 16
```

```
[ ] #program to count no.of characters in
string=input("Enter a string:")
count=0
l=len(string)
for i in range(0,l):
    if (string[i]!=' '):
        count=count+1
print("Total no.of characters :",count)
```

☞ Enter a string:welcome to python prog
Total no.of characters : 26

```
[ ] #program to accept list of words and r
words=list(map(str,input("Enter list o
temp=words[0]
for i in words:
    if(len(i)>len(temp)):
        temp=i
print("Longest word is",temp,"with len
```

Enter list of words:welcome to python
Longest word is programming with leng



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```
[ ] #program to generate all factors of a
n=int(input("Enter a number"))
for i in range(1,n+1):
    if(n%i==0):
        print(i)
```

Enter a number12

1
2
3
4
6
12

```
[ ] #program to add "ing" at the end of a
string=input("Enter a string:")
l=len(string)
if (string[l-3:]=='ing'):
    print(string[:-3]+'ly')
else:
    print(string+'ing')
```

Enter a string:writing
writly

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```
#prgm to display future leap years fro
y=int(input("Enter to which year:"))
print("Leap years from 2021 to",y)
for i in range(2021,y):
    if (i%4==0) and (i%100!=0) or (i%400
        print(i)
```

Enter to which year:2070
Leap years from 2021 to 2070
2024
2028
2032
2036
2040
2044
2048
2052
2056
2060
2064
2068

```
[ ] list=[1,3,8,9,5,3,4,3,7,1,3,5]
x=3
count=0
for i in list:
    if (i==x):
        count=count+1
print(x,"occurs",count,"times in the g
```

3 occurs 4 times in the given list



anjalip33

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```
fruits={"guava":2,"apple":2,"orange":5
dryfruits={"cashew":4,"almond":7}
fruits.update(dryfruits)
print(fruits)
```

```
{'guava': 2, 'apple': 2, 'orange': 5}
```