num=int(input("enter a number:"))

i=0 #initialization

while (i<=num): #condition

print(i,end=" ")

i=i+1 #increment or decrement

n=int(input("enter a number:"))

i=sum=0

while(i<=n):

sum=sum+i

i=i+1

print(sum)

n=int(input("enter a number:"))

i=sum=0

while(i<=n):

sum=sum+i

i=i+1

print(sum)

n=int(input("enter a number:"))

i=sum=0

while(n!=0):

r=n%10

sum=sum+r

n=n//10

print(sum)

n=int(input("enter a number:"))

i=0

while(i<=n):

if i%2==0:

print(i,end=" ")

i=i+1

n=int(input("enter a number :"))

i=sum=0

while(i<=n):

if i%2==0:

sum=sum+i

i=i+1

print(sum)

n=int(input("enter a number:"))

i=o=e=0

while(i<=n):

if i%2==0:

e=e+i

else:

o=o+i

i=i+1

print("even sum is:",e)

print("odd sum is:",o)

n=int(input("enter a number:"))

temp=0

while(n>0):

temp=n%10

print(temp,end="")

n=n//10

dn=int(input("enter a number:"))

bn=0

i=0

while dn!=0:

r=dn%2

bn=bn+r\*(10\*\*i)

dn=dn//2

i=i+1

print(bn)

bn=int(input("enter a number:"))

dn=0

i=0

while bn!=0:

r=bn%10

dn=dn+r\*(2\*\*i)

bn=bn//10

i=i+1

print(dn)

for i in range(11):

print(i,end=" ")

for i in range(1,21,5):

print(i)

n=10

s=0

for i in range(1,n+1):

s=s+i

print("avg is",s/n)

#program for math tables

n=int(input("enter from 1-10: "))

print("multiplication table of ",n)

print("---------------------------")

for i in range (1,11):

print(n,"X",i,"=",n\*i)

n=int(input("enter a number:"))

fact=1

for i in range(1,n+1):

fact=fact\*i

print("factorial value of",n,"is",fact)

n=int(input())

s=0.0

for i in range(1,n+1):

a=1.0/i

s=s+a

print(s)

n=int(input())

s=0.0

for i in range(1,n+1):

a=i/i+1

s=s+a

print(s)

n=int(input("enter a number:"))

i=e=o=0

d=0

while(n>0):

i=n%10

n=n//10

if i%2==0:

e=e+i

else:

o=o+i

i=i+1

print("difference is",o-e)

num=str(input())

print(int(num,17))

abc=[1,2,3,4,5,6,7]

for i in abc:

if i==4:

break

print(i)

abc=[1,2,3,4,5,6,7]

for i in abc:

if i==4:

continue

print(i)

for letter in 'archana':

pass

print("pass:",letter)

import calendar

y=int(input("enter the year"))

m=1

cal=calendar.TextCalendar(calendar.SUNDAY)

i=1

while i<=12:

cal.prmonth(y,i)

i=i+1