#1)list function

l=[]

for n in range(2000,2501):

if n%5==0 and n%8==0:

l.append(n)

print("numbers divisible by 5 and multiple of 8:",n)

#2)ceate a table (from 1 to 10) of a number

n=int(input("enter the number"))

for i in range(1,11):

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

#3)asending order and print first element

list=[9,8,7,6,5,4,3,2,1]

list.sort()

print("list in ascending order:",list)

print(list[0])

#4)second largest number in the list

list=[2,5,8,9,7]

def len(list):

list.sort()

print("the second largest number:",list[-2])

#5)print odd and even numbers separately in a list

list=[1,2,3,4,5,6,7,8,9,10]

even=[]

odd=[]

for i in list:

if (i%2==0):

even.append(i)

else:

odd.append(i)

print("the odd number in the list:",even)

print("the even number in the list:",odd)

#6)reversing a list

list=[9,8,7,6,5,4,3,2,1]

print(list[::-1])

#7)print odd numbers in a list

l=[]

for i in range(51):

if i%2!=0:

l.append(i)

print(l)

#8)count even and odd numbr in a list

list=[7,9,11,22,87,64,77,89]

even\_count=0

odd\_count=0

for i in list:

if i%2==0:

even\_count +=1

else:

odd\_count +=1

print("even numbers in list:",even\_count)

print("odd number in list:",odd\_count)

#9)remove zero from an ip address

import re

address=("216.08.094.196")

target=re.sub('\.[0]\*', '.',address)

print(target)

#10)program that matches a string that has an 'a' followed by #anything,ending with s

import re

text=("apples are always sweet")

x=re.findall("a+\S+s",text)

print(x)

#11)replace the occurances with given string

string1=input("enter the string: ")

result=string1.replace("6","six").replace("10","ten")

print(result)

#12)check person is eligible for vote

n =int(input("enter the age"))

if n > 18:

print("The person is eligible")

else:

print("The person is not eligible")

#13)calculate electricity bill

a=int(input("enter the unit"))

if a<=100 and a>=0:

print("your current bill is zero")

elif a>100 and a<=200:

b=100\*5

print("your current bill:",b,"rupees")

elif a>200:

b=200\*10

print("your current bill:",b,"rupees")

else:

print("invalid")

#14)percentage from user display grade

n=int(input("enter the percentage"))

if n>90 and a<=100:

print("Grade is A")

elif n>80 and n<=90:

print("Grade is B")

elif n>=60 and n<=80:

print("Grade:C")

elif n<60 and a>=0:

print("grade is D")

else:

print("re-enter your percentage")