**Problem Solving**

**# intro loops and conditional statements**

**# 1. elif program**

n=int(input("Enter A number"))

# n=10

if n>10:

    print(n," is greater than 10")

elif n<10:

    print(n," is less than 10")

else:

    print("Not A Number")

**# 2. even or odd**

n=15

if n%2==0:

    print(n, "is even")

else:

    print(n,"is even")

# 3. prime numbers

n=11

c=0

for x in range(2,n-1,1):

    if n%x==0:

        c+=1

if c==0:

    print(n,"is a prime")

else:

    print("not a prime")

**# 4. sum of individual numbers**

n="1234"

sum=0

for i in n:

    sum+=int(i)

print(sum)

**# 5. sum of odd individual numbers present in given number**

n="237"

sum=0

for i in n:

    if int(i)%2 !=0:

        sum+=int(i)

print(sum)

**# 6. difference b/w even and odd**

n="2376"

esum=0

osum=0

for i in n:

    if int(i)%2 ==0:

        esum+=int(i)

    else:

        osum+=int(i)

if esum >osum:

    print(esum-osum)

else:

    print(osum-esum)

**# 7. which is largest sum even or odd**

n="2376"

esum=0

osum=0

for i in n:

    if int(i)%2 ==0:

        esum+=int(i)

    else:

        osum+=int(i)

if esum >osum:

    print(esum,"even sum is greater")

else:

    print(osum,"odd sum is greater")