**If and for and while**

1. Guessing the number by using while loop and if:

Program:

number = int(input("Enter a number: "))

if number !=10:

while True:

print(" entered number does not match.")

number = int(input("Enter a number: "))

if number==0:

break

print("we won the match")

output:

enter a number : 0

enter number does not match

enter a number : 1

enter number does not match

enter a number : 10

we won the match

2.Guessing the number by using for loop and if condition :

Program:

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

for i in range(num):

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

if num==10:

break

else:

print(”we won the match”)

output:

enter a number: 2

enter a number :4

enter a number: 10

we won the match

real time example by using if condition and for loop and conditional statements:

program:

passwords={"123","Prasad ","nagu123","nani"}

for password in passwords:

if len (password)<8:

print("password is to short")

if password in "Prasad ":

print("password is to week")

continue

if password in "nagu123":

print("password is strong and accepted ")

break

print("password valid completed")

output:

password is strong and accepted

password is to short

3.Traffic light by using if and elif and else conditions:

Program:

trafficlight =input("enter the trafficlight colour( red, yellow, green)")

if trafficlight=="red":

print("stop")

elif trafficlight=="yellow":

print("get ready to stop")

elif trafficlight=="green":

print("go")

else:

print("invalid input please enter red, yellow, green")

output:

enter a trafficlight colour : red

stop

enter a trafficlight colour : yellow

get ready to shop

enter a trafficlight colour: green

go

enter a trafficlight colour : orange

no output