**While loops and conditional statements**

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:

                                                    name={"sai","krishna","shiva123","ravi"}

                                                      for name in names:

                                                       if len(name)<8:

                                                        print("name is to short")

                                                            if name in "krishna":

                                                                    print("name is to week")

                                                                   continue

                                                                if name in "shiva":

                                                      print("name is strong and accepted")

                                                                   break

                                                          print("name valid completed")

             output:

                                      name is strong and accepted

                                      name is to short

1. 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("invalued 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