# Solution for session 4

#### Task 5

Write a Python program to check whether you are eligible to vote or not using if else condition

*# input age*  
age = int(input("Enter Age : "))  
  
*# condition to check voting eligibility*  
**if** age>=18:  
 status="Eligible"  
**else**:  
 status="Not Eligible"  
  
print("You are ", status," for Vote.")

Enter Age: 18  
You are Eligible for Vote.

#### Task 6

Write a Python program that will check for the following conditions:

**If the light is green – The car is allowed to go If the light is yellow – The car has to wait If the light is red – The car has to stop Other signal – unrecognized signal. Example black, blue, etc… #using if elif and else**

signal = input("What is a traffic signal? :").title()  
**if** signal == "Red":  
 print("Stop your car!")  
**elif** signal == "Yellow":  
 print("Wait your car!")  
**elif** signal == "Green":  
 print("You are allowed to go!")  
**else**:  
 print("Unrecognized signal!")

#### Task 7

Test if a is greater than b, AND if c is greater than a:

a = 200  
b = 33  
c = 500  
**if** a > b **and** c > a:  
 print("Both conditions are True")

#### TASK 8:

Write a code to insert 41 before 51

list1 = [ 1, 2, 3, 4, 5, 6, 7 ]

list1 = [ 1, 2, 3, 4, 5, 6, 7 ]  
  
*# insert 10 at 4th index*  
list1.insert(4, 10)  
print(list1)

#### Task 9

Finding the average of 10 numbers using a while loop

sum = 0  
count = 0  
  
**while** count<10:  
 n = float(input('Enter a number: '))  
 sum = sum + n  
 count = count + 1  
  
average = sum/10  
  
print(f'The average of these numbers is: {average}')

#### TASK 10:

Write a code to pop the number 6 from the given list

list1 = [1, 2, 3, 4, 5, 6]

list1 = [1, 2, 3, 4,5,6]  
print("Popped element:", list1.pop())  
print("List after pop():", list1)