LAB 3

Task 1

import random

number1 = random.randint(1,10)

number2 = random.randint(1,10)

if number2 > number1:

number2 = number2 + number1

number1 = number2 - number1

number2 = number2 - number1

print(number1, "-", number2)

b = number1 - number2

a = int(input("Subtract the given number and write the answer : "))

if a==b:

print("your answer is correct")

else:

print("your answer is false")

elif number1 > number2:

print(number1, "-", number2)

b = number1 - number2

a = int(input("Subtract the given number and write the answer : "))

if a==b:

print("your answer is correct")

else:

print("your answer is false")

Task 2

weight\_in\_pounds = eval(input("Enter your weight in pounds : "))

height\_in\_inches = eval(input("Enter your height in inches:"))

weight\_in\_kg = weight\_in\_pounds \* 0.45356237

height\_in\_meters = height\_in\_inches \*0.0254

BMI = weight\_in\_kg/(height\_in\_meters)\*\*2

print("The BMI is:" ,BMI)

if BMI<=18.5:

print("Under weight")

elif BMI >= 18.5 and BMI <= 29.9:

print("Normal")

elif BMI > 25.0 and BMI <= 29.9:

print("Over weight")

elif BMI > 30:

print("Obese")

Task 3

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

if a%4==0:

if a%100==0:

if a%400==0:

print("It is a leap year")

else:

print("It is not leap year")

else:

print("It is not leap year")

else:

print("It is not leap year")

Task 4

import random

b = random.randint(0,1)

a = int(input("Guess head as 0 or tail as 1 : "))

if a==b:

print("Your guess is right")

else:

print("Not right")

Task 5

import random

computer\_guess = random.randint(0,2)

print(computer\_guess)

user\_guess = int(input("Enter your guess : "))

if computer\_guess == 0:

scissor = computer\_guess

if user\_guess == scissor:

print("draw")

elif user\_guess == 1:

print("User wins")

elif user\_guess == 2:

print("computer wins")

elif computer\_guess == 1:

rock = computer\_guess

if user\_guess == rock:

print("Draw")

elif user\_guess == 0:

print("computer wins")

elif user\_guess == 2:

print("User wins")

elif computer\_guess == 2:

paper = computer\_guess

if user\_guess == paper:

print("Draw")

elif user\_guess == 0:

print("user wins")

elif user\_guess == 1:

print("computer wins")

Task 6

import random

lottery=random.randint(11,23)

print(lottery)

guess=eval(input("Enter your guess:"))

lottery\_tens=lottery//10

lottery\_ones=lottery%10

guess\_tens=guess//10

guess\_ones=guess%10

print("The lottery number was",lottery)

if lottery == guess:

print("The reward is $10,000")

else:

if (lottery\_tens == guess\_ones and lottery\_ones == guess\_tens):

print("you won 3000$")

elif (guess\_tens == lottery\_tens or guess\_ones == lottery\_tens or guess\_tens == lottery\_ones):

print("you won 1000$")

else:

print("sorry Better luck next time")