LAB 2

TASK 1

import math

radius = 5

length = 10

area = math.pi\*(radius)\*\*2

length = area \* length

Task 2

minutes = int(input("Enter the minutes : "))

a = 24\*60

days = minutes//a

years = days//365

remaining\_days = days % 365

print("Number of days in given minutes are ",(years))

print("number of days in given minutes are ",(remaining\_days))

Task 3

amount\_of\_water = eval(input("enter the amount of water in kilograms : "))

final\_temperature = int(input("Enter the final temperature : "))

initial\_temperature = int(input("Enter the initail temperature : "))

energy = amount\_of\_water\*(final\_temperature-initial\_temperature)

print("The amonut of energy needed to heat the water is ",(energy),"joules")

Task 4

a = input("Enter 4 digit number : ")

b = a[::-1]

print(b)

Task 5

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

height\_in\_inches = int(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\_inches)\*\*2

print("Body mass index is ",(BMI))

Task 6

year = int(input("Enter number of years : "))

a = year\*365\*24\*60\*60

birth\_per\_year = a/7

print("Total birth in a year",int(birth\_per\_year))

death\_per\_year = a/13

print("Total death in a year",int(death\_per\_year))

immigrant\_per\_year = a/45

print("Total immigrant in a year",int(immigrant\_per\_year))

rate\_per\_year = birth\_per\_year - death\_per\_year + immigrant\_per\_year

print("Total population in year is",int(rate\_per\_year))