ข้อ 1

Code :

def checkname():

    fname = {"Jeff","Jack","Jim"}

    if namecap in fname:

            checkname = ("Hello, "+namecap+". Good morning my friend!")

            return checkname

    else :

            checkname = ("Who are you?\nNice to meet you anyway..."+namecap+" :).")

            return checkname

name = str(input("What is your name?:"))

namecap = name.capitalize()

print(checkname())

Output :

Text

Description automatically generated

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Text

Description automatically generated

ข้อ 2

Code :

def pay():

    if hr > 40:

        ot = hr-40

        pay = (40\*rate) + (ot\*(rate\*1.5))

        return pay

    else:

        pay = hr\*rate

        return pay

hr = int(input("How many hours did you work last week?"))

rate = int(input("What is your pay rate per hour(between 10-25)"))

print(pay())

Output :

Text

Description automatically generated

ข้อ 3

Code :

def prime():

    if num > 1:

        for i in range(2,num):

            if (num % i) == 0:

                prime = ("This is not a prime number")

                return prime

                break

        else:

            prime = ("This is a prime number")

            return prime

    else:

        prime = ("This is not a prime number")

        return prime

num = int(input("Enter a number to test:"))

print(prime())

Output :

Text

Description automatically generated

ข้อ 4

Code :

def checkmax():

    checkmax = ("The maximum number entered is "+str(max(numlist)))

    return checkmax

def checkmin():

    checkmin = ("The minimum number entered is "+str(min(numlist)))

    return checkmin

ele = int(input("Enter number of elements : "))

numlist = []

maxi = 0

mini = 0

for i in range (0,ele):

    num = int(input())

    numlist.append(num)

print("The entered list is "+str(numlist))

print(checkmax())

print(checkmin())

Output :

Text

Description automatically generated

ข้อ 5

Code :

from optparse import check\_choice

from turtle import st

def tri():

    bl = int(input("Please enter the base length:"))

    h = int(input("Please enter the height:"))

    area = (1/2)\*bl\*h

    tri = "The area of triangle with base = "+str(bl)+" and height = "+str(h)+" is "+str(float(area))

    return tri

import math

def cub():

    bw = int(input("Please enter the base width:"))

    l = int(input("Please enter the length:"))

    h = int(input("Please enter the height:"))

    vol = bw\*l\*h

    cub = "The cubic volumn of width = "+str(bw)+" length = "+str(l)+" and height = "+str(h)+" is "+str(vol)

    return cub

def con():

    bd = int(input("Please enter the base diameter:"))

    h = int(input("Please enter the height:"))

    r = bd/2

    vol = (1/3)\*22/7\*r\*r\*h

    con = "The conical volumn of cone with diameter = "+str(bd)+" and height = "+str(h)+" is "+"%.12f"%vol

    return con

print("Please enter a choice for your selection:")

print("Enter 1 if you want to calculate the area of a triangle.")

print("Enter 2 if you want to calculate the volumn of a cubic.")

print("Enter 3 if you want to calculate the volumn of a cone.")

choice = int(input("Enter your choice here:"))

check\_choice = [1,2,3]

if choice in check\_choice:

    if choice == 1:

        print(tri())

    elif choice == 2:

        print(cub())

    elif choice == 3:

        print(con())

else:

    print("Invalid Choice")

Output :

Text

Description automatically generated

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Text

Description automatically generated

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Text

Description automatically generated

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Text

Description automatically generated