Q1. What should be the output? ( 3 + 4 \*\* 6 - 9 \* 10 / 2 )

A1. 4054.0

Q2. Let say I have, some string "hello this side regex". Find out the count of the total vowels

A2. def check(string,vowels):

string=string.casefold()

count = {}.fromkeys(vowels, 0)

for character in string:

if character in count:

count[character] += 1

return count

string = "hello this side regex"

vowels= "aeiou"

print(check(string,vowels))

OUTPUT: {'a': 0, 'e': 4, 'i': 2, 'o': 1, 'u': 0}

Q3. Take value from user about base, height and find out the area of triangle.

A3. base=float(input())

height=float(input())

area=(base\*height)/2

print(area)

OUTPUT: 2

4

4.0

Q4. Print the calendar on the terminal. The year is to be provided by the user.

A4. import calendar

y = int(input("Input the year : "))

m = int(input("Input the month : "))

print(calendar.month(y,m))

OUTPUT:

Input the year : 2020

Input the month : 12

December 2020

Mo Tu We Th Fr Sa Su

1 2 3 4 5 6

7 8 9 10 11 12 13

14 15 16 17 18 19 20

21 22 23 24 25 26 27

28 29 30 31

If all 12 months are to be printed then

import calendar

def printcal(year):

print(calendar.calendar(0))

year = input()

printcal(year)

2020

0

January February March

Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su

1 2 1 2 3 4 5 6 1 2 3 4 5

3 4 5 6 7 8 9 7 8 9 10 11 12 13 6 7 8 9 10 11 12

10 11 12 13 14 15 16 14 15 16 17 18 19 20 13 14 15 16 17 18 19

17 18 19 20 21 22 23 21 22 23 24 25 26 27 20 21 22 23 24 25 26

24 25 26 27 28 29 30 28 29 27 28 29 30 31

31

April May June

Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su

1 2 1 2 3 4 5 6 7 1 2 3 4

3 4 5 6 7 8 9 8 9 10 11 12 13 14 5 6 7 8 9 10 11

10 11 12 13 14 15 16 15 16 17 18 19 20 21 12 13 14 15 16 17 18

17 18 19 20 21 22 23 22 23 24 25 26 27 28 19 20 21 22 23 24 25

24 25 26 27 28 29 30 29 30 31 26 27 28 29 30

July August September

Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su

1 2 1 2 3 4 5 6 1 2 3

3 4 5 6 7 8 9 7 8 9 10 11 12 13 4 5 6 7 8 9 10

10 11 12 13 14 15 16 14 15 16 17 18 19 20 11 12 13 14 15 16 17

17 18 19 20 21 22 23 21 22 23 24 25 26 27 18 19 20 21 22 23 24

24 25 26 27 28 29 30 28 29 30 31 25 26 27 28 29 30 31

October November December

Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su

1 1 2 3 4 5 1 2 3

2 3 4 5 6 7 8 6 7 8 9 10 11 12 4 5 6 7 8 9 10

9 10 11 12 13 14 15 13 14 15 16 17 18 19 11 12 13 14 15 16 17

16 17 18 19 20 21 22 20 21 22 23 24 25 26 18 19 20 21 22 23 24

23 24 25 26 27 28 29 27 28 29 30 25 26 27 28 29 30 31

30 31