

Assignment 2

1. What should be the output of following:

$$3 + 4 ** 6 - 9 * 10 / 2$$

-> Priority of exponential is highest and then multiplication, division and then addition, subtraction. On calculating we get 4054

2. Find out the total vowel in given string

“Hello this side regex”

->

Code and Output:

```
str1 = 'hello this side regex'
vowel_count = 0
for i in str1:
    if (i == 'a' or i == 'e' or i == 'u' or i == 'o' or i == 'i'):
        vowel_count += 1
print(f'Total number of vowels in given string: {vowel_count}')
```

Total number of vowels in given string: 7

3. Find an area of the Triangle. Take height and base from the user.

->

Code and Output:

```
def area_of_triangle(b, h):
    return (1/2) * b * h

#DriverCode
print('Triangle Area Counter')
base = int(input('Enter the value of base: '))
height = int(input('Enter the value of height: '))
result = area_of_triangle(base, height)
print(f'Area of Triangle having Base {base} and Height {height} is: {result}')
```

```
Triangle Area Counter
Enter the value of base: 10
Enter the value of height: 8
Area of Triangle having Base 10 and Height 8 is: 40.0
```

4. Take the input from the user as a year and print the calendar of that year.

->

Code:

```
import calendar
print('Calendar Printer')
year = int(input('Enter the year: '))
print(calendar.calendar(year))
```

Output:

Calendar Printer

Enter the year: 2020

2020

January

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		

February

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	

March

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					

April

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			

May

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

June

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					

July

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		

August

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						

September

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			

October

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	

November

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						

December

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		