# **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"

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### **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.

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#### **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
```

 ${\bf 4.} \ \, {\bf Take \ the \ input \ from \ the \ user \ as \ a \ year \ and \ print \ the \ calendar \ of \ that \ year.}$ 

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## 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								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	3	4	5						1	2							1		
6	7	8	9	10	11	12	3	4	5	6	7	8	9	2	3	4	5	6	7	8		
13	14	15	16	17	18	19	10	11	12	13	14	15	16	9	10	11	12	13	14	15		
20	21	22	23	24	25	26	17	18	19	20	21	22	23	16	17	18	19	20	21	22		
27	28	29	30	31			24	25	26	27	28	29		23	24	25	26	27	28	29		
														30	31							
	April						May							June								
Mo	Tu	market 1			Sa	Su	Мо	Tu	We	Th	Fr	Sa	Su	Мо	Tu	We	Th	Fr	Sa	Su		
		1	2	3	4	5					1	2	3	1	2	3	4	5	6	7		
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14		
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21		
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28		
27	28	29	30				25	26	27	28	29	30	31	29	30							
		July					August							September								
Mo	Tu	We	Th	Fr	Sa	Su	Мо	Tu	We	Th	Fr	Sa	Su	Мо	Tu	We	Th	Fr	Sa	Su		
		1	2	3	4	5						1	2		1	2	3	4	5	6		
6	7	8	9	10	11	12	3	4	5	6	7	8	9	7	8	9	10	11	12	13		
13	14	15	16	17	18	19	10	11	12	13	14	15	16	14	15	16	17	18	19	20		
20	21	22	23	24	25	26	17	18	19	20	21	22	23	21	22	23	24	25	26	27		
27	28	29	30	31			24	25	26	27	28	29	30	28	29	30						
							31															
		0c1	tobe	er				November								December						
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su		
			1	2	3	4							1		1	2	3	4	5	6		
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13		
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20		
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27		
26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30	31					
							30															