**PYTHON ASSIGNMENT**

**PYTHON CLASS 1,2**

**Q1) Output of 3+4\*\*6-9\*10/2**

Program: 3+4\*\*6-9\*10/2

Output: 4054.0

**Q2) Let say I have , some string “hello this side regex”**

1. **Find out the count of total vowels**

Program: str="hello this side regex"

vowel=["a","e","i","o","u","A","E","I","O","U"]

count=0

for i in range(0,len(str)):

if str[i] in vowel:

count=count+1

print("Total Vowels are : ",count)

Output: Total Vowels are : 7

**Q3) Find out the area of Triangle**

Program: base= float(input("Enter Base of Triangle"))

height=float(input("Enter height of Triangle"))

area=(1/2)\*base\*height

print("Area of Triangle: " ,area)

Output:

Enter Base of Triangle4

Enter height of Triangle5

Area of Triangle: 10.0

**Q4) print calendar on the terminal.(Year user input)**

Program: year=int(input("Enter Year you want to print Calendar of: "))

print(calendar.calendar(year))

Ouptput:

Enter Year you want to print Calendar of: 2019

2019

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 6 1 2 3 1 2 3

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

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

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

28 29 30 31 25 26 27 28 25 26 27 28 29 30 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 3 4 5 6 7 1 2 3 4 5 1 2

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

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

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

29 30 27 28 29 30 31 24 25 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 3 4 5 6 7 1 2 3 4 1

8 9 10 11 12 13 14 5 6 7 8 9 10 11 2 3 4 5 6 7 8

15 16 17 18 19 20 21 12 13 14 15 16 17 18 9 10 11 12 13 14 15

22 23 24 25 26 27 28 19 20 21 22 23 24 25 16 17 18 19 20 21 22

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

30

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 2 3 4 5 6 1 2 3 1

7 8 9 10 11 12 13 4 5 6 7 8 9 10 2 3 4 5 6 7 8

14 15 16 17 18 19 20 11 12 13 14 15 16 17 9 10 11 12 13 14 15

21 22 23 24 25 26 27 18 19 20 21 22 23 24 16 17 18 19 20 21 22

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

30 31

Question: Armstrong Number

Program:

number1=int(input("Enter number1"))

number2=int(input("Enter number2"))

for i in range(number1,number2+1):

r=0

arms=0

number3=i

count=0

while(number3!=0):

r=number3%10

count=count+1

number3=number3//10

number4=i

while(number4!=0):

r=number4%10

arms=arms+(r\*\*count)

number4=number4//10

if(arms==i):

print(i)

Output:

Enter number11

Enter number2156

1

2

3

4

5

6

7

8

9

153

**Q5) lets have a string “hello this world @2020!!!”**

1. **Remove punctuation like (“A!#$%^&\*”)**

Program:

str1="hello this world @2020!!!"

for i in range(0,len(str1)):

if ((str1[i]>="a" and str1[i]<="z") or (str1[i]>="A" and str1[i]<="Z") or (str1[i]>="0" and str1[i]<="9") or str1[i]==' '):

print(str1[i],end="")

else:

continue

Output: hello this world 2020

Question:List: ["Apple","banana","cat","REGEX","apple"] Sort the following list in alphabetic order.

Program: list1=["Apple","banana","cat","REGEX","apple"]

list1.sort()

print(list1)

Output: ['Apple', 'REGEX', 'apple', 'banana', 'cat']