Name : Ahsanullah  
Roll No : AIC030217  
Teacher : Dr. Noman Islam   
Campus : Head Office Campus  
Time :9:00 am to 12 pm

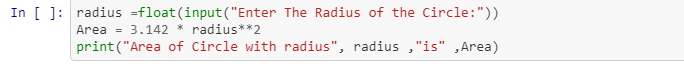
**1. Calculate Area of a Circle**

**Write a Python program which accepts the radius of a circle from the user and compute the area.**

***Program Console Sample Output 1:***

***Input Radius: 0.5***

***Area of Circle with radius 0.5 is 0.7853981634***



## 2. Check Number either positive, negative or zero

#### Write a Python program to check if a number is positive, negative or zero

###### *Program Console Sample Output 1:*

###### *Enter Number: -1*

##### *Negative Number Entered*

###### *Program Console Sample Output 2:*

##### *Integer: 3*

##### *Positive Number Entered*

###### *Program Console Sample Output 3:*

##### *Integer: 0*

###### *Zero Entered*

###### *C:\Users\Ahsan Ullah Khan\Desktop\2.PNG*

## 3. Divisibility Check of two numbers

#### Write a Python program to check whether a number is completely divisible by another number. Accept two integer values form the user

##### *Program Console Sample Output 1:*

###### *Enter numerator: 4*

###### *Enter Denominator: 2*

##### *Number 4 is Completely divisible by 2*

###### *Program Console Sample Output 2:*

##### *Enter numerator: 7*

##### *Enter Denominator: 4*

###### *Number 7 is not Completely divisible by 4*

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## 4. Calculate Volume of a sphere

##### *Write a Python program to get the volume of a sphere, please take the radius as input from user*

##### *Program Console Output:*

##### *Enter Radius of Sphere: 1*

###### *Volume of the Sphere with Radius 1 is 4.18*

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## Copy string n times

#### Write a Python program to get a string which is n (non-negative integer) copies of a given string.

##### *Program Console Output:*

##### *Enter String: Hi*

###### *How many copies of String you need: 4*

###### *4 Copies of Hi are HiHiHiHi*

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## 6. Check if number is Even or Odd

### Write a Python program to find whether a given number (accept from the user) is even or odd, print out an appropriate message to the user

#### Program Console Output 1:

##### *Enter Number: 4*

###### *4 is Even*

#### Program Console Output 2:

#### C:\Users\Ahsan Ullah Khan\Desktop\6.PNG

##### *Enter Number: 9*

##### *9 is Odd*

## 7. Vowel Tester

### Write a Python program to test whether a passed letter is a vowel or not

#### Program Console Output 1:

##### *Enter a character: A*

###### *Letter A is Vowel*

#### Program Console Output 2:

##### *Enter a character: e*

###### *Letter e is Vowel*

#### Program Console Output 2:

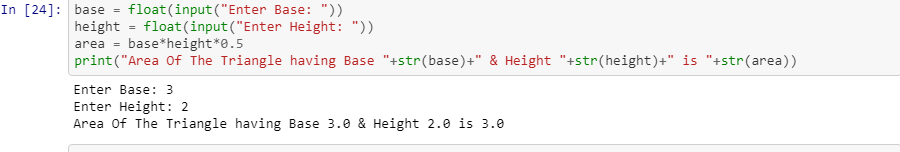
##### *Enter a character: N*

###### *Letter N is not Vowel*

## 

## 8. Triangle area

### Write a Python program that will accept the base and height of a triangle and compute the area



## 9. Calculate Interest

### Write a Python program to compute the future value of a specified principal amount, rate of interest, and a number of years

#### Program Console Sample 1:

##### *Please enter principal amount: 10000*

###### *Please Enter Rate of interest in %: 0.1*

###### *Enter number of years for investment: 5*

###### *After 5 years your principal amount 10000 over an interest rate of 0.1 % will be 16105.1*[*¶*](https://render.githubusercontent.com/view/ipynb?commit=b5af6cd6c33090bb1a1be433832cb90b537ae981&enc_url=68747470733a2f2f7261772e67697468756275736572636f6e74656e742e636f6d2f72616f66616861646b68616e2f50494149432d4f4646494349414c2d41535349474e4d454e542f623561663663643663333330393062623161316265343333383332636239306235333761653938312f50494149432532304f6666696369616c25323061737369676e6d656e74253230312e6970796e62&nwo=raofahadkhan%2FPIAIC-OFFICIAL-ASSIGNMENT&path=PIAIC+Official+assignment+1.ipynb&repository_id=192423528&repository_type=Repository#After-5-years-your-principal-amount-10000-over-an-interest-rate-of-0.1-%-will-be-16105.1)

###### *C:\Users\Ahsan Ullah Khan\Desktop\9.PNG*

## 10. Euclidean distance

### write a Python program to compute the distance between the points (x1, y1) and (x2, y2).

#### Program Console Sample 1:

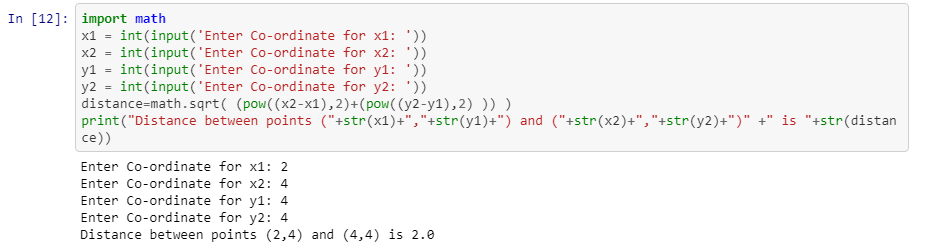
###### *Enter Co-ordinate for x1: 2*

###### *Enter Co-ordinate for x2: 4*

###### *Enter Co-ordinate for y1: 4*

###### *Enter Co-ordinate for y2: 4*

###### *Distance between points (2, 4) and (4, 4) is 2*[*¶*](https://render.githubusercontent.com/view/ipynb?commit=b5af6cd6c33090bb1a1be433832cb90b537ae981&enc_url=68747470733a2f2f7261772e67697468756275736572636f6e74656e742e636f6d2f72616f66616861646b68616e2f50494149432d4f4646494349414c2d41535349474e4d454e542f623561663663643663333330393062623161316265343333383332636239306235333761653938312f50494149432532304f6666696369616c25323061737369676e6d656e74253230312e6970796e62&nwo=raofahadkhan%2FPIAIC-OFFICIAL-ASSIGNMENT&path=PIAIC+Official+assignment+1.ipynb&repository_id=192423528&repository_type=Repository#Distance-between-points-(2,-4)-and-(4,-4)-is-2)



## 11. Feet to Centimeter Converter

### Write a Python program to convert height in feet to centimetres.

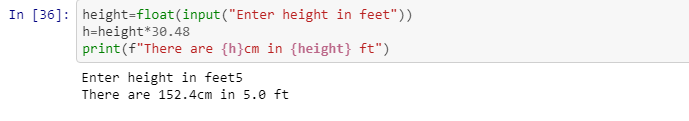
##### *Program Console Sample 1:*

###### *Enter Height in Feet: 5*

###### *There are 152.4 Cm in 5 ft*

###### *Reference:*

[https://www.rapidtables.com/convert/length/feet-to-cm.htm](https://www.rapidtables.com/convert/length/feet-to-cm.html)



## 12. BMI Calculator

### Write a Python program to calculate body mass index

##### *Program Console Sample 1:*

###### *Enter Height in Cm: 180*

###### *Enter Weight in Kg: 75*

###### *Your BMI is 23.15*

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## 13. Sum of n Positive Integers

### Write a python program to sum of the first n positive integers

#### Program Console Sample 1:

###### *Enter value of n: 5*

###### *Sum of n Positive integers till 5 is 15*

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## 14. Digits Sum of a Number

### Write a Python program to calculate the sum of the digits in an integer

#### Program Console Sample 1:

##### *Enter a number: 15*

###### *Sum of 1 + 5 is 6*

#### Program Console Sample 2:

##### *Enter a number: 1234*

###### *Sum of 1 + 2 + 3 + 4 is 10*[*¶*](https://render.githubusercontent.com/view/ipynb?commit=b5af6cd6c33090bb1a1be433832cb90b537ae981&enc_url=68747470733a2f2f7261772e67697468756275736572636f6e74656e742e636f6d2f72616f66616861646b68616e2f50494149432d4f4646494349414c2d41535349474e4d454e542f623561663663643663333330393062623161316265343333383332636239306235333761653938312f50494149432532304f6666696369616c25323061737369676e6d656e74253230312e6970796e62&nwo=raofahadkhan%2FPIAIC-OFFICIAL-ASSIGNMENT&path=PIAIC+Official+assignment+1.ipynb&repository_id=192423528&repository_type=Repository#Sum-of-1-+-2-+-3-+-4-is-10)

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