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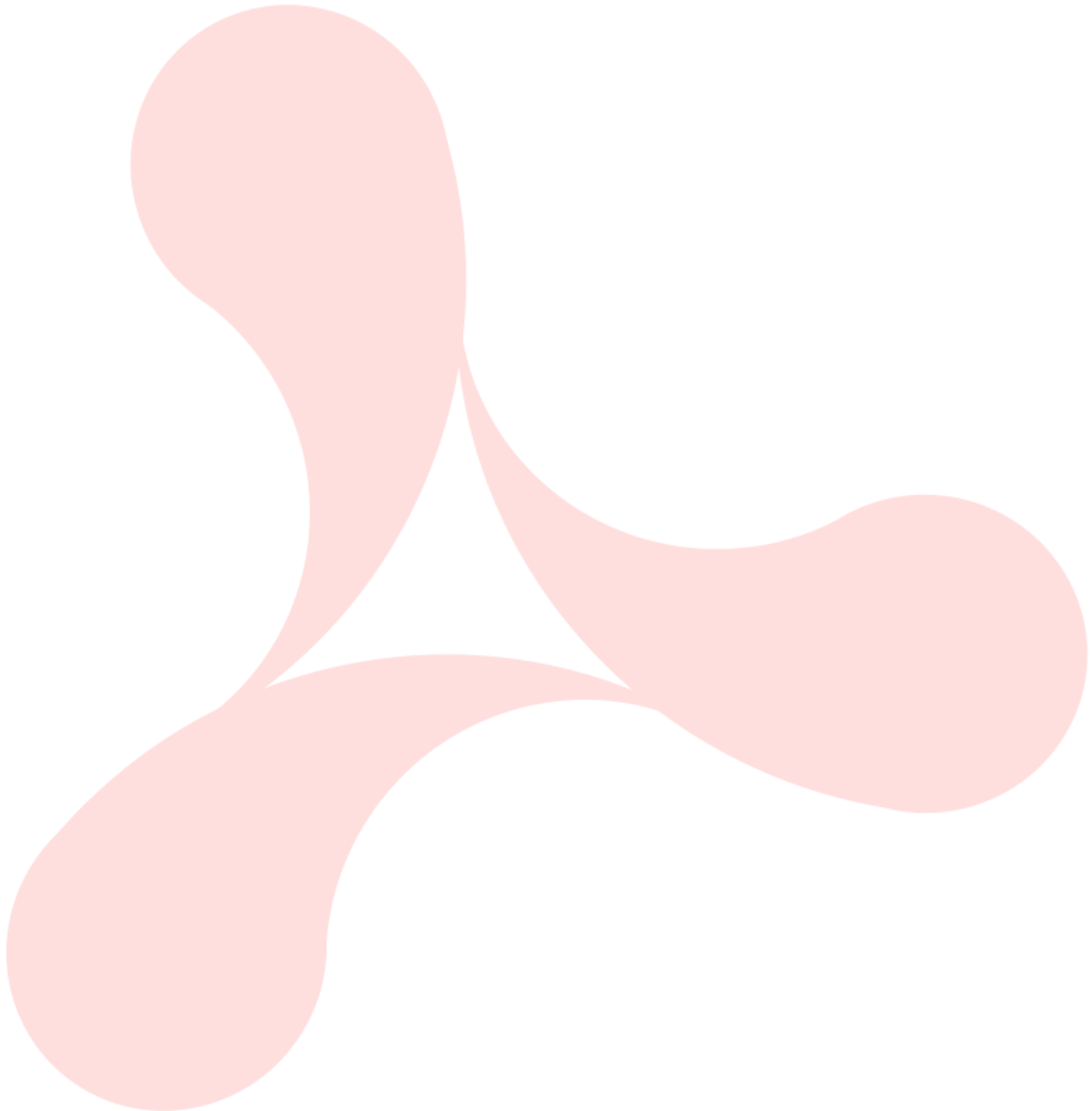
Python Assignment

Assignment-1

Dibakar Deb
ACCELERATRON

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History

Date	Modified By	Version	Comment
01-06-2021	Dibakar Deb	1.0	

Reference URL

Reference ID	Reference	Comment
Link-1		

Prerequisite

1. To execute the following program, install Python 3.x.x on the machine or use any web compiler e.g. <https://replit.com/>
2. You should have completed the first class of Acceleratron training.
3. All the program should have a separate file. Zip the folder and upload in the provided shared location.
4. The name of the zip file should be <<enrolmentID>>_<<name>>_Assignment_1.zip
For example if my name is Ravi Verma and my enrolment id is DM4PF4747715. Then the name of the zip file is **DM4PF4747715_Ravi_Verma_Assignment_1.zip**

Assignment

1. Length and breadth of a rectangle are taken as user input. Write a program to calculate the area and perimeter of the rectangle.
2. Write a program to calculate the perimeter of a triangle. Where the lengths of the sides are taken as user input.
3. Write a program to add 8 to the number 2345 and then divide it by 3. Now, the modulus of the quotient is taken with 5 and then multiply the resultant value by 5. Display the result.
4. Now, solve the above question using assignment operators (e.g. +=, -=, *=).
5. Write a program to print the power of "x" raised to 5. Where x is taken from user.
6. Take the marks of a student obtained in 5 subjects (each out of 100), write a program to calculate total marks and percentage marks.

7. Suppose the values of variables 'a' and 'b' are 6 and 8 respectively, write two programs to swap the values of the two variables.

1 - first program by using a third variable

2 - second program without using any third variable

(Swapping means interchanging the values of the two variables E.g.- If entered value of x is 5 and y is 10 then after swapping the value of x and y should become 10 and 5 respectively.)

8. Write a program to convert Fahrenheit into Celsius. Take Fahrenheit as input.
9. The total number of students in a class are 90 out of which 45 are boys. If 50% of the total students secured grade 'A' out of which 20 are boys, then write a program to calculate the total number of girls getting grade 'A'.