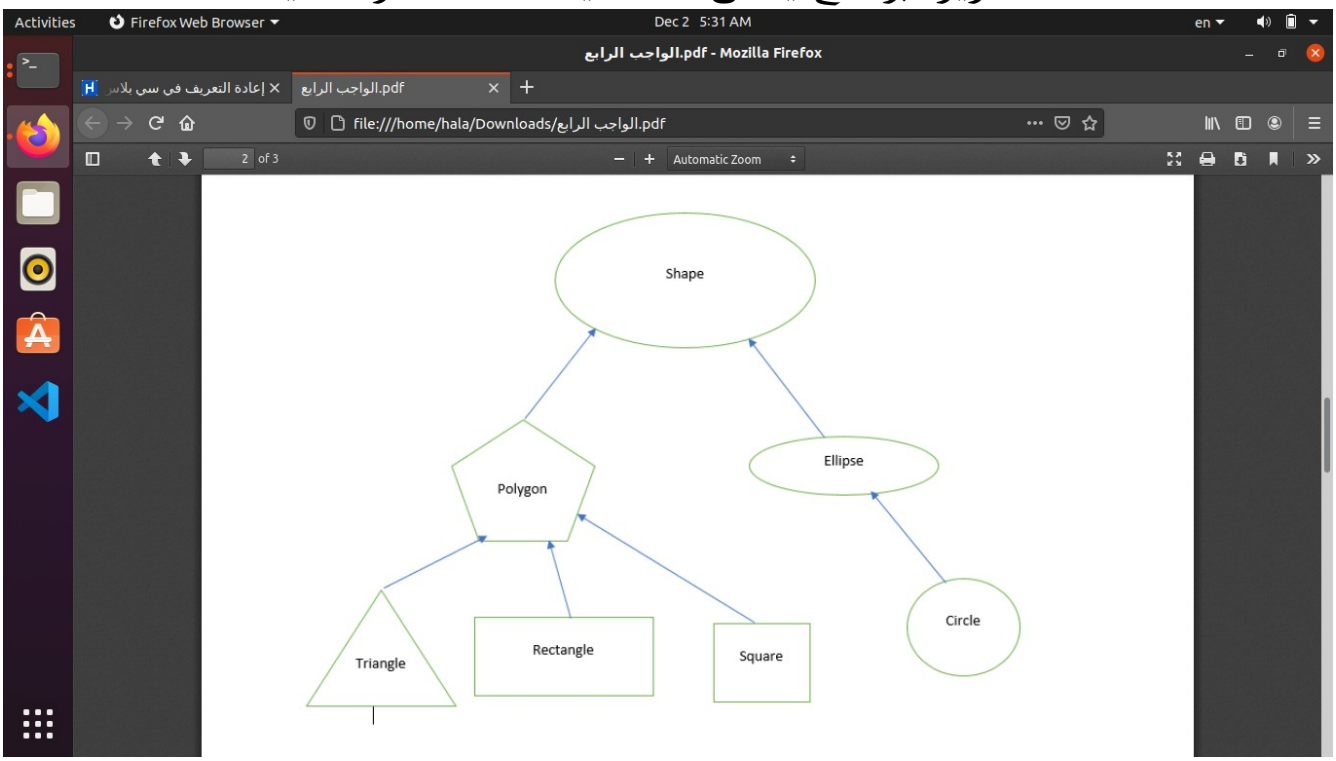
بسم الله الرحمن الرحيم

تقرير لبرنامج يعمل على ايجاد مساحة والمحيط



في الشكل اعلاه المطلوب ان نجد مساحة ومحيط جميع الاشكال الهندسية وذلك توريث كل كائن خصائص الاخر دون ان تتاثر خصائص المروث منه وذلك عن طريق الاتي:

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1-I defined the class named Shape which is the superclass from which the rest shapes will inherit from it by making it’s characteristics public .

2-Defined all values and constants in it.

3-Make class Ellipse inherit from the class shape and repeat the second step

4-then I found the value of the area and the perimeter.

5-Make class Circle inherit from class Ellipse and repeat step (2)and(3).

6-Make class Polygon inherit from class Shape and repeat step (2)and(3).

7-Make class Triangle inherit from class Polygon and repeat step (2)and(3).
8-Make class Rectangle inherit from class Polygon and repeat step (2)and(3).
9-Make class Square inherit from class Polygon and repeat step (2)and(3).
10-In each of the steps(3) (5) (6) (7) (8) (9) I retrieve the value and function.
11-Dfined the same function in that the subclass inherited from the superclass ,but it’s content is different in order to define the functions acocording to his need.
12- Define a function named printShapeInfo() when called we passed to it the address of an object
inheriting from class shape and it executes the functions in it “and this before the main”.
13-Give each object a value according to the law of finding the area and the perimeter it has.
14-called function printShapeInfo()in each one separately in order to call the function from them “and this inside the main”.
###in this way, we consider that we have applied the concept of abstraction,encapsulation,inheritance and Polymorphism.