

Question 3

Trace the following program segment and show its output:

```
data1 = 95;
data2 = 120;
cout<<"First data: "<< data1 <<"    second data: "<< data2<<endl;
data1 = data1 + data2;
data2 = data1 * 2;
cout<<"First data: "<< data1 <<"    second data: "<< data2<<endl;
data2++;
data1 = data2 % 5;
cout<<"Second data: "<< data2 <<"    first data: "<< data1<<endl;
```

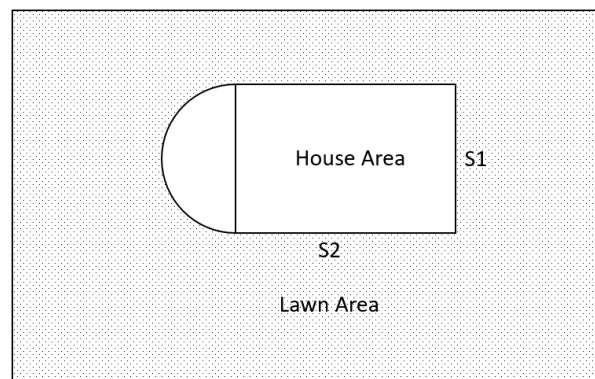
5.5 marks

Answer

First data: 95	second data: 120	1 mark
First data: 215	second data: 430	2 marks
Second data: 431	first data: 1	2.5 marks

Question 4

Tokwan wants to hire a lawn care worker to cut the grass in his yard. The pay rate is **RM2.50 per square meter**. The lawn area is the shaded area in this diagram:



You are to help Tokwan by writing a program to calculate the total wages that is payable to the lawn care worker. The program will the size (area) of the lawn (in squares metre) and the total wages. (**Note:** The size of the curved area on the left side of the house is half of a circle)