## Paper Number 4 (20 marks)

Consider the following recursive sequence of numbers:

1,2,4,7,11. . . .

- a) Design a **recursive** Python function to produce the above output when a user enters an integer from the keyboard.
- b) Use the loop to run the program and display the correct output until user input -1.
- c) Sample Output:

Enter number:1

Output:1

Enter number:2

Output:2

Enter number:3

Output:4

Enter number: -1 Output: Finished

Note: 0 marks for non-recursive solutions

Upload your answer using given in the course web link "Paper Number 4"

## **Grading Sheet:**

- 1) Program is compiling. 2 marks
- 2) Program is running successfully. 2 marks
- 3) Program takes the input number as integer. 2 marks
- 4) Correct implementation recursive function. 6 marks
- 5) Display the output correctly 2 marks
- 6) Use of loop correctly 4 marks
- 7) Include comments and properly indented. 2 marks
- 8) Plagiarism testing tool results: .....