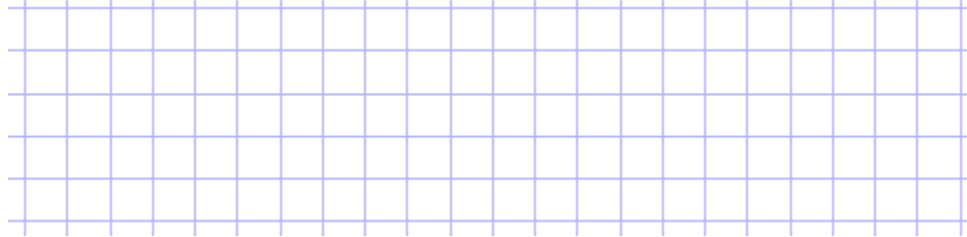


# Grade Eight Computers: Coding Assessment

1. For each of the following, write a Python code using the proper syntax.

a. Display the text, "Welcome to your final coding assessment at GAA!" (1 mark)



b. Have a user input their name and the year he/she was born using two separate variables. (2 marks)



c. Display the message, "Coding is almost done" 25 times using five or less lines. (2 marks)



d. Complete line 3 in order to display the proper kinetic energy. (1 mark)

```
1 m=100
2 v=10
3 k=
4 print ("The kinetic energy of a person with a mass of",m,"kg and running
at a speed of",v,"m/s is",k,"Joules.")
```

3 k=\_\_\_\_\_

*Hint: kinetic energy is calculated using the formula*

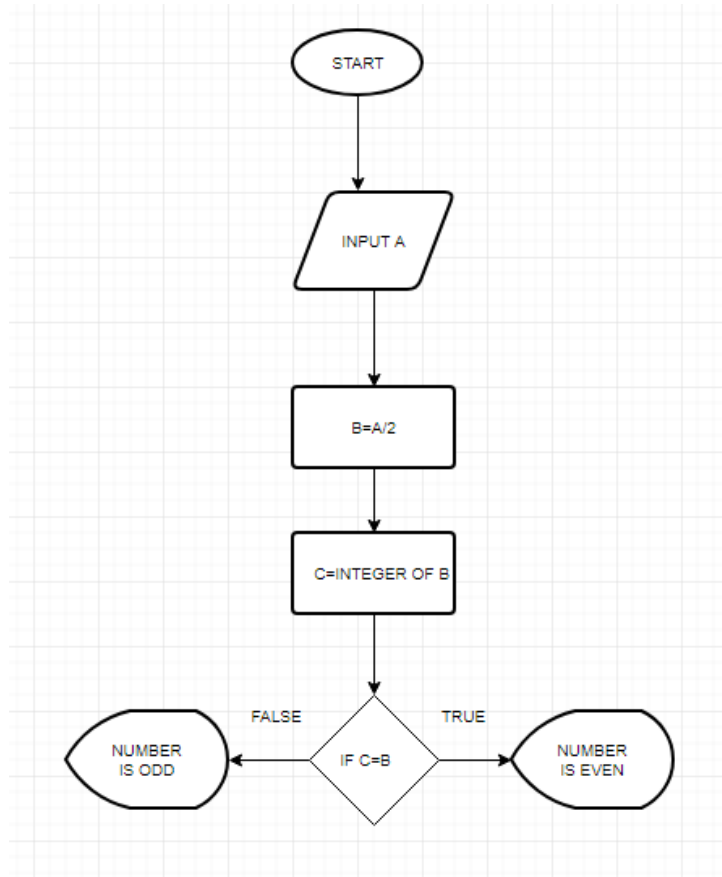
$$E_k = \frac{1}{2}mv^2$$

The kinetic energy of a person with a mass of 100 kg and running at a speed of 10 m/s is 5000.0 Joules.





6. Convert the flowchart below to Python code. (3 marks)



7. Bonus: Write a code that will calculate the sum of all the odd numbers from 1 to 100. (3 marks)

