



This is to certify that

**sameh benali**

successfully completed and received a passing grade in

**Spark Fundamentals II**

(BD0212EN, provided by IBM)

A course on **cognitiveclass.ai**

Powered by **IBM Developer Skills Network**.

Issued by  
**Cognitive Class**

**December 1, 2021**

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/b2387f7481e54688b4a2d3b10e1f9b84>

Certificate ID Number: **b2387f7481e54688b4a2d3b10e1f9b84**

**December 1, 2021**