



This is to certify that

Ozlem Kilickaya

successfully completed and received a passing grade in

Spark Fundamentals I
(BD0211EN, provided by Cognitive Class)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

Issued by
Cognitive Class

December 15, 2020

Authenticity of this certificate can be validated by going to:
<https://courses.cognitiveclass.ai/certificates/f7d2f05a6020432884a9696ac2fd94a6>

Certificate ID Number: **f7d2f05a6020432884a9696ac2fd94a6**

December 15, 2020