#### ARTIFICIAL INTELLIGENCE ENGINEERING DEPARTMENT

# INTRODUCTION TO DATA SCIENCE

# MOCK-UP EXAM

(This is a 100-minute exam)

STUDENT ID:	FULLNAME:		SIGNATURE:					
<b>Q.1)</b> a) Explain the difference by DataFrames.	Detween integer-based indexir	ıg and	label-based	indexing in	pandas			
Dutai rainesi								
b) What does the following code print to the console? import pandas as pd								
data = {'Age': [25, 30, 22, 38]								
<pre>'City': ['New York', 'Los Angeles', 'Chicago', 'Miami']} df = pd.DataFrame(data, index=['Alice', 'Bob', 'Charlie', 'David'])</pre>								
<pre>x = df.iloc[1, :] print(x)</pre>								
y = df.loc['Bob', 'Age']								
print(y)								
u = df.iloc[:, :2]								
<pre>v = df.iloc[-2:] print(u)</pre>								
print(v)								
<pre>z = df.loc[['Alice', 'Charlie'] print(z)</pre>	, :]							

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<b>Q.2)</b> Bri deployr	iefly explain the ke ment.	y steps involved i	n the data scier	nce workflow, fro	om problem defini	ition to model
Q.3) Da measur	ita types like tempe ement. Can you cla	erature (Celsius or	Fahrenheit) and	d time (seconds,	minutes) are ofter	n used for v not.
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