



AI-102^{Q&As}

Designing and Implementing a Microsoft Azure AI Solution

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**QUESTION 1****HOTSPOT**

You are building a bot and that will use Language Understanding.

You have a LUDown file that contains the following content.

```
## Confirm
- confirm
- ok
- yes

## ExtractName
- call me steve !
- i am anna
- (i'm|i am) {@PersonName.Any}[.]
- my name is {@PersonName.Any}[.]

## Logout
- forget me
- log out

## SelectItem
- choose last
- choose the {@DirectionalReference=bottom left}
- choose {@DirectionalReference=top right}
- i like {@DirectionalReference=left} one

## SelectNone
- none

@m1 DirectionalReference
@prebuilt personName
```

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

SelectItem is [answer choice].

	▼
a domain	
an entity	
an intent	
an utterance	

Choose {@DirectionalReference=top right} is [answer choice].

	▼
a domain	
an entity	
an intent	
an utterance	

Correct Answer:

Answer Area

SelectItem is [answer choice].

	▼
a domain	
an entity	
an intent	
an utterance	

Choose {@DirectionalReference=top right} is [answer choice].

	▼
a domain	
an entity	
an intent	
an utterance	

Reference: <https://github.com/solliancenet/tech-immersion-data-ai/blob/master/ai-exp1/README.md>

QUESTION 2

HOTSPOT

You are developing a text processing solution.

You develop the following method.



```
static void GetKeyPhrases(TextAnalyticsClient textAnalyticsClient, string text)
{
    var response = textAnalyticsClient.ExtractKeyPhrases(text);
    Console.WriteLine("Key phrases:");

    foreach (string keyphrase in response.Value)
    {
        Console.WriteLine($"{keyphrase}");
    }
}
```

You call the method by using the following code.

```
GetKeyPhrases(textAnalyticsClient, "the cat sat on the mat");
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
The call will output key phrases from the input string to the console.	<input type="radio"/>	<input type="radio"/>
The output will contain the following words: the, cat, sat, on, and mat.	<input type="radio"/>	<input type="radio"/>
The output will contain the confidence level for key phrases.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
The call will output key phrases from the input string to the console.	<input checked="" type="radio"/>	<input type="radio"/>
The output will contain the following words: the, cat, sat, on, and mat.	<input type="radio"/>	<input checked="" type="radio"/>
The output will contain the confidence level for key phrases.	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes

The Key Phrase Extraction API evaluates unstructured text, and for each JSON document, returns a list of key phrases.

Box 2: No

'the' is not a key phrase.



This capability is useful if you need to quickly identify the main points in a collection of documents. For example, given input text "The food was delicious and there were wonderful staff", the service returns the main talking points: "food" and

"wonderful staff".

Box 3: No

Key phrase extraction does not have confidence levels.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-keyword-extraction>

QUESTION 3

HOTSPOT

You need to develop code to upload images for the product creation project. The solution must meet the accessibility requirements.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
public static async Task<string> SuggestAltText(ComputerVisionClient client,
{
    List<VisualFeatureTypes> features = new List<VisualFeatureTypes>()
    {
        VisualFeatureTypes.Description
        VisualFeatureTypes.ImageType
        VisualFeatureTypes.Objects
        VisualFeatureTypes.Tags
    };
    ImageAnalysis results = await client.AnalyzeImageAsync(image, features);
    var c = results.Brands.DetectedBrands[0]
    var c = results.Description.Captions[0]
    var c = results.Metadata[0]
    var c = results.Objects[0]
    if(c.Confidence>0.5) return(c.Text);
}
```

Dictionary

stream

string

image)



Correct Answer:

Answer Area

```
public static async Task<string> SuggestAltText(ComputerVisionClient client,  
{  
    List<VisualFeatureTypes?> features = new List<VisualFeatureTypes?>()  
    {  
        VisualFeatureTypes.Description  
        VisualFeatureTypes.ImageType  
        VisualFeatureTypes.Objects  
        VisualFeatureTypes.Tags  
    };  
    ImageAnalysis results = await client.AnalyzeImageAsync(image, features);  
    var c = results.Brands.DetectedBrands[0]  
    var c = results.Description.Captions[0]  
    var c = results.Metadata[0]  
    var c = results.Objects[0]  
    if(c.Confidence>0.5) return(c.Text);  
}
```

Reference: <https://github.com/Azure-Samples/cognitive-services-dotnet-sdk-samples/blob/master/documentation-samples/quickstarts/ComputerVision/Program.cs>

QUESTION 4

HOTSPOT

You are building a chatbot by using the Microsoft Bot Framework Composer.

You have the dialog design shown in the following exhibit.



AskForName > BeginDialog > Text

Show code

BeginDialog
Begin dialog event

+

Bot Asks (Text)
What is your name?

+

User Input (Text)
username = Input(Text)

+

Bot Asks (Number)
Hello \$(user.name), how old are you?

+

User Input (Number)
user.age = Input(Number)

Prompt for text
Text input
Collection information - Ask for a word or sentence.
[Learn more](#)

Bot Asks

User Input

Other

Property ⓘ

string

username

Output Format ⓘ

string

ex. =toUpper(this.value), \$(toUpper(this.value))

Value ⓘ

expression

fx =coalesce(@user.Name.@personName)

Expected responses (intent:
#TextInput_Response_GH5FTe)

>

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
user.name is an entity.	<input type="radio"/>	<input type="radio"/>
The dialog asks for a user name and a user age and assigns appropriate values to the user.name and user.age properties.	<input type="radio"/>	<input type="radio"/>
The chatbot attempts to take the first non-null entity value for userName or personName and assigns the value to user.name.	<input type="radio"/>	<input type="radio"/>



Correct Answer:

Answer Area

Statements	Yes	No
<code>user.name</code> is an entity.	<input type="radio"/>	<input checked="" type="radio"/>
The dialog asks for a user name and a user age and assigns appropriate values to the <code>user.name</code> and <code>user.age</code> properties.	<input checked="" type="radio"/>	<input type="radio"/>
The chatbot attempts to take the first non-null entity value for <code>userName</code> or <code>personName</code> and assigns the value to <code>user.name</code> .	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: No

User.name is a property.

Box 2: Yes Box 3: Yes The `coalesce()` function evaluates a list of expressions and returns the first non-null (or non-empty for string) expression.

Reference: <https://docs.microsoft.com/en-us/composer/concept-language-generation> <https://docs.microsoft.com/en-us/azure/data-explorer/kusto/query/coalescefunction>

QUESTION 5

You need to create a visualization of running sales totals per quarter as shown in the following exhibit.



What should you create in Power BI Desktop?

A. a waterfall chart



- B. a ribbon chart
- C. a bar chart
- D. a decomposition tree

Correct Answer: C

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