



# AI-102<sup>Q&As</sup>

Designing and Implementing a Microsoft Azure AI Solution

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**QUESTION 1****HOTSPOT**

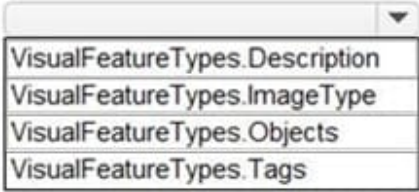
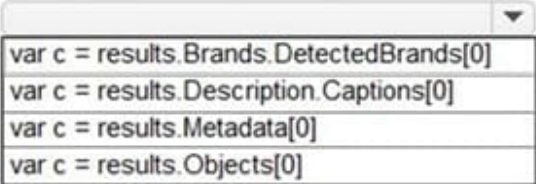
You need to develop code to upload images for the product creation project. The solution must meet the accessibility requirements.

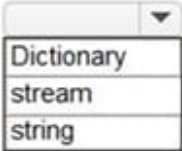
How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

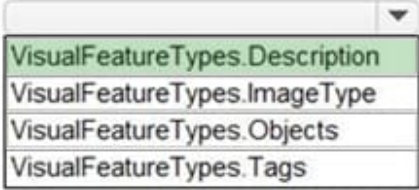
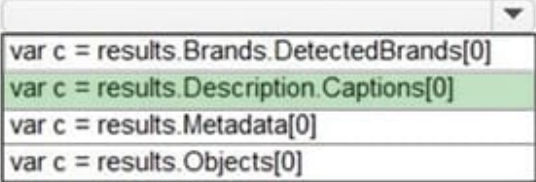
```
public static async Task<string> SuggestAltText(ComputerVisionClient client,  
{  
    List<VisualFeatureTypes> features = new List<VisualFeatureTypes>()  
    {  
          
    };  
    ImageAnalysis results = await client.AnalyzeImageAsync(image, features);  
      
    if(c.Confidence>0.5) return(c.Text);  
}
```

 image)

Correct Answer:



## Answer Area

```
public static async Task<string> SuggestAltText(ComputerVisionClient client,
{
    List<VisualFeatureTypes?> features = new List<VisualFeatureTypes?>()
    {
        
    };
    ImageAnalysis results = await client.AnalyzeImageAsync(image, features);
    
    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 2

You are developing a method that uses the Computer Vision client library. The method will perform optical character recognition (OCR) in images. The method has the following code.



```
public static async Task ReadFileUrl(ComputerVisionClient client, string urlFile)
{
    const int numberOfCharsInOperationId = 36;

    var txtHeaders = await client.ReadAsync(urlFile, language: "en");

    string opLocation = txtHeaders.OperationLocation;
    string operationId = opLocation.Substring(opLocation.Length -
        numberOfCharsInOperationId);

    ReadOperationResult results;

    results = await client.GetReadResultAsync(Guid.Parse(operationId));

    var textUrlFileResults = results.AnalyzeResult.ReadResults;
    foreach (ReadResult page in textUrlFileResults)
    {
        foreach (Line line in page.Lines)
        {
            Console.WriteLine(line.Text);
        }
    }
}
```

During testing, you discover that the call to the `GetReadResultAsync` method occurs before the read operation is complete.

You need to prevent the `GetReadResultAsync` method from proceeding until the read operation is complete.

Which two actions should you perform? Each correct answer presents part of the solution.

(Choose two.)

NOTE: Each correct selection is worth one point.

- A. Remove the `Guid.Parse(operationId)` parameter.
- B. Add code to verify the `results.Status` value.
- C. Add code to verify the status of the `txtHeaders.Status` value.
- D. Wrap the call to `GetReadResultAsync` within a loop that contains a delay.

Correct Answer: BD

Example code :

```
do
{
    results = await client.GetReadResultAsync(Guid.Parse(operationId));
}
while ((results.Status == OperationStatusCodes.Running || results.Status == OperationStatusCodes.NotStarted));
```

Reference:

<https://github.com/Azure-Samples/cognitive-services-quickstart->



code/blob/master/dotnet/ComputerVision/ComputerVisionQuickstart.cs

### QUESTION 3

#### DRAG DROP

You have 100 chatbots that each has its own Language Understanding model.

Frequently, you must add the same phrases to each model.

You need to programmatically update the Language Understanding models to include the new phrases.

How should you complete the code? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

#### Values

AddPhraseListAsync  
Phraselist  
PhraselistCreateObject  
Phrases  
SavePhraselistAsync  
UploadPhraseListAsync

#### Answer Area

```
var phraselistId = await client.Features.   
(appId, versionId, new   
{  
    EnabledForAllModels = false,  
    IsExchangeable = true,  
    Name = "PL1",  
    Phrases = "item1,item2,item3,item4,item5"  
});
```

Correct Answer:

#### Values

Phraselist  
  
Phrases  
SavePhraselistAsync  
UploadPhraseListAsync

#### Answer Area

```
var phraselistId = await client.Features. AddPhraseListAsync  
(appId, versionId, new PhraselistCreateObject  
{  
    EnabledForAllModels = false,  
    IsExchangeable = true,  
    Name = "PL1",  
    Phrases = "item1,item2,item3,item4,item5"  
});
```

Box 1: AddPhraseListAsync Example: Add phraselist feature

```
var phraselistId = await client.Features.AddPhraseListAsync(appId, versionId, new PhraselistCreateObject
```

```
{ EnabledForAllModels = false, IsExchangeable = true, Name = "QuantityPhraselist", Phrases = "few,more,extra"
```

```
});
```

Box 2: PhraselistCreateObject

Reference: <https://docs.microsoft.com/en-us/azure/cognitive-services/luis/client-libraries-rest-api>

**QUESTION 4**

What is a primary characteristic of a relational database?

- A. data is queried and manipulated by using a variant of the SQL language
- B. a lack of dependencies between tables
- C. a flexible data structure
- D. a large amount of duplicate data

Correct Answer: C

---

**QUESTION 5**

You build a custom Form Recognizer model.

You receive sample files to use for training the model as shown in the following table.

Name	Type	Size
File1	PDF	20 MB
File2	MP4	100 MB
File3	JPG	20 MB
File4	PDF	100 MB
File5	GIF	1 MB
File6	JPG	40 MB

Which three files can you use to train the model? Each correct answer presents a complete solution. (Choose three.)

NOTE: Each correct selection is worth one point.

- A. File1
- B. File2
- C. File3
- D. File4
- E. File5
- F. File6

Correct Answer: ACF

File 2 and 5 are excluded.



New service limits now goes up to 500MB so...

File 1, 3, and 6 are correct for "training the model", however if MSFT remove the word "training" from the question - be careful.

<https://docs.microsoft.com/en-gb/learn/modules/work-form-recognizer/3-get-started>

<https://docs.microsoft.com/en-us/azure/applied-ai-services/form-recognizer/service-limits?tabs=v21>

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