Code showing cutom model used for prediction using our own endpoint URL and probability of object detection for 5 images

Import libraries

```
In [68]:
    from msrest.authentication import ApiKeyCredentials
    from azure.cognitiveservices.vision.customvision.prediction import CustomVisionP
    from azure.storage.blob import (
        BlobServiceClient,
        generate_blob_sas,
        BlobSasPermissions,
)
    from azure.storage.blob import generate_blob_sas, BlobSasPermissions
    from datetime import datetime, timedelta
    from azure.cognitiveservices.vision.customvision.prediction.models import ImageU
```

Define credentials

```
In [ ]: ENDPOINT = 'https://pythonejercicio-prediction.cognitiveservices.azure.com/
        PREDICTION_KEY = 'prediction_key_here'
        PROJECT ID = "9b1fa97e-0db3-46ee-93b4-9eead57c48d2"
        PUBLISHED_NAME = "Iteration2"
CONTAINER_NAME = "step4"
        BLOB_PREFIX = ""
In [72]: blob_service = BlobServiceClient(account_url=ACCOUNT_URL, credential=ACCOUNT_KEY
        container = blob service.get container client(CONTAINER NAME)
        def sas_url(blob_name: str) -> str:
            sas = generate_blob_sas(
                account name = blob service.account name,
                container name = CONTAINER NAME,
                blob_name = blob_name,
                account_key = ACCOUNT_KEY,
                permission = BlobSasPermissions(read=True),
expiry = datetime.utcnow() + timedelta(hours=1),
                version
                             = "2023-11-03"
            return f"{ACCOUNT URL}{CONTAINER NAME}/{blob name}?{sas}"
        blob_urls = [
            sas_url(b.name)
            for b in container.list_blobs()
            if b.name.lower().endswith((".jpg", ".jpeg", ".png"))
         1
        print(f" { len(blob_urls)} imágenes encontradas.")
```

🔼 5 imágenes encontradas.

```
In [73]: credentials = ApiKeyCredentials(in_headers={"Prediction-key": PREDICTION_KEY})
        predictor = CustomVisionPredictionClient(ENDPOINT, credentials)
        # --- Recorrer blobs e inferir por contenido (NO URL) ---
        for blob in container.list_blobs():
            if not blob.name.lower().endswith((".jpg", ".jpeg", ".png")):
                continue
            blob_client = blob_service.get_blob_client(container=CONTAINER_NAME, blob=bl
            img_bytes = blob_client.download_blob().readall()
            res = predictor.detect_image(PROJECT_ID, PUBLISHED_NAME, img_bytes)
            print(f"\n (blob.name)")
            hits = [p for p in res.predictions if p.probability > THRESHOLD]
            if not hits:
                print(f"
                          X Sin objetos > {THRESHOLD:.0%}")
            else:
                for p in hits:
                              print(f"
       lighter_test_set_1of5.jpg
          Lighter → 54.83%
          Lighter → 44.31%
          Lighter → 41.76%
          Lighter → 27.41%
       iii lighter_test_set_2of5.jpg
          Lighter → 49.67%
          Lighter → 45.28%
          Lighter → 31.26%
          Lighter → 30.93%
       im lighter_test_set_3of5.jpg
          Lighter → 63.36%
          Lighter → 30.63%
          Lighter → 29.97%
       im lighter_test_set_4of5.jpg
          Lighter → 70.95%
          Lighter → 59.93%
       im lighter_test_set_5of5.jpg
          Lighter → 26.78%
```