1. What is the command to invoke the slack-request function?
   a. Curl:
      ```
      curl -X POST -H "Content-Type: application/json" --data '{
      "payload": "payload-data-goes-here" }'
      http://husainunwalla/slack-request
      ```
   b. faas-cli:
      ```
      faas-cli invoke slack-request
      ```

2. What is the output you see when you invoke the slack-request function?
   Output:
   ```
   {"text": "Serverless Message", "attachments": [{"fields":
   [{"short": true, "value": "100", "title": "Amazing Level"}],
   "author_icon": "", "image_url":
   "https://avatars.githubusercontent.com/u/36625317?v=4",
   "author_name": "https://github.com/husainunwalla", "title":
   "The Awesome world of Cloud Computing! COEN 241"}, {"text":
   "COEN 241 is the most awesome class ever!.", "title": "About
   COEN 241"}, {"title": "Would you recommend COEN 241 to your
   friends?", "color": "#3AA3E3", "actions": [{"text": "Of
   Course!", "type": "button", "name": "recommend", "value":
   "recommend"}, {"text": "Most Definitely!", "type": "button",
   "name": "definitely", "value": "definitely"}], "callback_id":
   "response123", "fallback": "Would you recommend COEN 241 to
   your friends?", "attachment_type": "default"}]}
   ```

3. What is the command to invoke the slack-interactive function?
   a. Curl:
      ```
      curl -X POST -H "Content-Type: application/json" --data '{
      "payload": "payload-data-goes-here" }'
      http://husainunwalla/slack-interactive
      ```
   b. faas-cli:
      ```
      faas-cli invoke slack-interactive
      ```

4. What is the output you see when you invoke the slack-interactive function?
   Output:
   ```
   {"attachments": [{"footer": "Slack Apps built on OpenFaas",
   "author_link": "https://github.com/husainunwalla", "color":
   "#36a64f", "text": "Head over to COEN 241", "title": "COEN
   241", "ts": 123456789, "author_name": "", "title_link":
   "https://www.scu.edu/engineering/academic-programs/department-o
   f-computer-engineering/graduate/course-descriptions/",
   "image_url":
   "https://www.scu.edu/media/offices/umc/scu-brand-guidelines/vis
   ual-identity-amp-photography/visual-identity-toolkit/logos-amp-
   seals/Mission-Dont3.png", "response_type": "ephemeral",
   ```

```
"replace_original": true, "footer_icon":
"https://a.slack-edge.com/45901/marketing/img/_rebrand/meta/sla
ck_hash_256.png", "pretext": "Ahh yeah! Great choice, COEN 241
is absolutely amazing!", "fallback": "Required plain-text
summary of the attachment.", "thumb_url":
"https://www.scu.edu/engineering/academic-programs/department-o
f-computer-engineering/graduate/course-descriptions/",
"author_icon":
"https://avatars.githubusercontent.com/u/36625317?v=4"}]}
```

5. How would you pass different arguments to the functions?
   The following command format will do that:
   ```
   echo '<function-arguments>' | faas-cli invoke <function-name>
   ```

6. How would you change the slack-interactive function to react to different inputs?
   The following python code handles two input types:

```python
import json
import urllib

def handle(req):
    urlstring =
urllib.unquote(req).decode('utf8').strip('payload=')
    response = json.loads(urlstring)
    action = response.get("actions")[0].get("value")
    if action == "COEN241":
        data = {
            "attachments": [
                {}
            ]
        }
    elif action == "COEN242":
        data = {
            "attachments": [
                {}
            ]
        }

        return json.dumps(data)
```