- Sam init

def ddb delete(x):

dynamo.delete_item(**x)

```
- Sam build

    Sam deploy –guided

->made changes to app.py- added code for dynamodb crud operations.
 import boto3
import json
# define the DynamoDB table that Lambda will connect to
tableName = "lambda-apigateway"
# create the DynamoDB resource
dynamo = boto3.resource('dynamodb').Table(tableName)
print('Loading function')
def lambda_handler(event, context):
  print(event)
  "Provide an event that contains the following keys:
   - operation: one of the operations in the operations dict below
   - payload: a JSON object containing parameters to pass to the
          operation being performed
  # define the functions used to perform the CRUD operations
  def ddb_create(x):
    print(x)
    dynamo.put_item(**x)
    return x
  def ddb read():
    response = dynamo.scan()
    return(response['Items'])
  def ddb_update(x):
    dynamo.update_item(**x)
    return x
```

```
def echo(x):
  return x
operations = {
  'create': ddb_create,
  'read': ddb_read,
  'update': ddb_update,
  'delete': ddb_delete,
  'echo': echo,
}
if(event['httpMethod']!='GET'):
  body=json.loads(event['body'])
  operation=body['operation']
  payload = body['payload']
  if operation in operations:
     operations[operation](payload)
     statusCode=200
     data = "success"
     return{
       "statusCode":statusCode,
       "body":json.dumps(data),
       "headers":{
          "Content-Type": "application/json"
       }
     }
else:
  data=ddb_read()
  statusCode=200
  return{
  "statusCode":statusCode,
  "body":json.dumps(data),
  "headers":{
     "Content-Type": "application/json"
  }
  }
```

-> below template file- added methods of api on this

AWSTemplateFormatVersion: '2010-09-09'

```
Transform: AWS::Serverless-2016-10-31
Description: >
Globals:
   MemorySize: 128
Resources:
 HelloWorldFunction:
ns/2016-10-31.md#api
            Path: /hello
```

```
ns/2016-10-31.md#api
          - Ref: AWS::StackName
   Type: AWS::ApplicationInsights::Application
```

```
DependsOn: ApplicationResourceGroup
Outputs:
Serverless::Function
SAM
https://github.com/awslabs/serverless-application-model/blob/master/docs/i
function
d/hello/"
 HelloWorldFunction:
   Value: !GetAtt HelloWorldFunction.Arn
 HelloWorldFunctionIamRole:
   Value: !GetAtt HelloWorldFunctionRole.Arn
```

Then built and deployed.

-> testing from postman->https://vxncq06gak.execute-api.ap-northeast-1.amazonaws.com/Prod/hello/

With body has {

```
"operation": "create",

"payload": {

"Item": {

"id": "1234ABCD118881",

"number": 52

}
}
```

Dynamo db table

