Lambda Function Python Code

```
import boto3
import csv
# Initialize the boto3 client
s3 client = boto3.client('s3')
ses_client = boto3.client('ses')
def lambda handler(event, context):
    # Specify the S3 bucket name
   bucket_name = '----' # Replace with your bucket name
    try:
        # Retrieve the CSV file from S3
       csv file = s3 client.get object(Bucket=bucket name, Key='contacts.csv')
       lines = csv file['Body'].read().decode('utf-8').splitlines()
       # Retrieve the HTML email template from S3
       email template = s3 client.get object(Bucket=bucket name,
Key='email template.html') #Contacts file name
       email html = email template['Body'].read().decode('utf-8')
        # Parse the CSV file
       contacts = csv.DictReader(lines)
       for contact in contacts:
            # Replace placeholders in the email template with contact information
            personalized_email = email_html.replace('{{FirstName}}',
contact['FirstName'])
            # Send the email using SES
            response = ses client.send email(
                Source='----', # Replace with your verified "From" address
               Destination={'ToAddresses': [contact['Email']]},
               Message={
                    'Subject': {'Data': '-----', 'Charset': 'UTF-8'},
                      #subject of the email to be sent
                    'Body': {'Html': {'Data': personalized_email, 'Charset': 'UTF-8'}}
            print(f"Email sent to {contact['Email']}: Response {response}")
    except Exception as e:
       print(f"An error occurred: {e}")
```

Lambda Function Test Event

```
"comment": "Generic test event for scheduled Lambda execution. The function does not
use this event data.",
 "test": true
```

IAM Policy for SES and S3 permissions

```
{
   "Version": "2012-10-17",
   "Statement": [
       {
           "Effect": "Allow",
           "Action": [
              "s3:GetObject"
           "Resource": "arn:aws:s3:::----/*"
       },
           "Effect": "Allow",
           "Action": [
              "ses:SendEmail",
              "ses:SendRawEmail"
           "Resource": "*"
       }
   ]
```

Specify the s3 bucket name in the space above