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 = 'ttt-email-marketing' # 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')
        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='you@yourdomainname.com', # Replace with your verified "From"
address
                Destination={'ToAddresses': [contact['Email']]},
                Message={
                    'Subject': {'Data': 'Your Weekly Tiny Tales Mail!', 'Charset':
'UTF-8'},
                    '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

Update the ARN to use your S3 bucket

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