Step 1: Start

Step 2: Initialize Scanner for Input

  2.1:Create a `Scanner` object to receive input.

```
scanner = new Scanner(System.in)
```

Step 3: Input Message

  3.1:Prompt "Enter a message to hash" and read the input into `message`.

```
print("Enter a message to hash: ")
message = scanner.nextLine()
```

Step 4: Initialize SHA-256 MessageDigest

  4.1:Create a `MessageDigest` instance for SHA-256 hashing.

  4.2:Convert `message` to bytes and calculate the hash.

```
md = MessageDigest.getInstance("SHA-256")
hash = md.digest(message.getBytes())
```

Step 5: Display Hash

  5.1:Loop through each byte in `hash`.

  5.2:Print each byte as a two-digit hexadecimal string.

```
for each byte in hash:
    print byte as two-digit hexadecimal
```

Step 6: Error Handling

  6.1:Catch exceptions and print "Error" if any issue occurs during hashing.

```
if exception occurs:
    print("Error")
```

Step 7: Stop