

7. The program code below protects the rechargeable battery in an electric toothbrush.

...

```
Line 67  SET brushstop TO FALSE
Line 68  WHILE brushstop = FALSE DO
Line 69      SET battery TO <percentage of power left>
Line 70      SET temperature TO <temperature of battery>
Line 71      IF battery < 3 OR temperature > 45 THEN
Line 72          SET brushstop TO TRUE
Line 73      END IF
Line 74  END WHILE
Line 75  <switch toothbrush off>
```

...

- (a) State the logical operator in this code.

1

---

- (b) Describe the purpose of the Boolean variable in this code.

1

---

---