Write a script to check if $x1$ lies in between 5 and 10. If yes, assign 1 to val and otherwise 0. Is this script correct?

```
val = 0;

if 5 < x1 < 10
    val = 1;
end
```

M03-Q1: Please answer the following question.

Write a script to check if $x1$ lies in between 5 and 10. If yes, assign 1 to `val` and otherwise 0. Is this script correct?

```
val = 0;

if 5 < x1 < 10
    val = 1;
end
```

- **Answer:** No

- **Comment:** Review "if-Statement" (p.87) and an example of "relational operation" (p.53).

Write a script to check if $x1$ lies in between 5 and 10. If yes, assign 1 to val and otherwise 0. Is this script correct?

```
if (5 < x1) && (x1 < 10)
    val = 1;
else
    val = 0;
end
```

M03-Q2: Please answer the following question.

Write a script to check if `x1` lies in between 5 and 10. If yes, assign 1 to `val` and otherwise 0. Is this script correct?

```
if (5 < x1) && (x1 < 10)
    val = 1;
else
    val = 0;
end
```

- **Answer:** Yes

- **Comment:** Review "if-else Statement" (p.93) and an example of "relational operation" (p.53).

Write a script to check if $x1$ lies in between 5 and 10. If yes, assign 1 to val and otherwise 0. Is this script correct?

```
val = 0;

if (5 < x1) && (x1 < 10)
    val = 1;
end
```

M03-Q3: Please answer the following question.

Write a script to check if `x1` lies in between 5 and 10. If yes, assign 1 to `val` and otherwise 0. Is this script correct?

```
val = 0;

if (5 < x1)  && (x1 < 10)
    val = 1;
end
```

- **Answer:** Yes

- **Comment:** Review an example of "if-Statement" (p.88).

Write a script to check if $x1$ lies in between 5 and 10. If yes, assign 1 to val and otherwise 0. Is this script correct?

```
if 5 < x1
    val = 1;
elseif x1 < 10
    val = 1;
else
    val = 0;
end
```

⭐

M03-Q4: Please answer the following question.

Write a script to check if $x1$ lies in between 5 and 10. If yes, assign 1 to val and otherwise 0. Is this script correct?

```
if 5 < x1
    val = 1;
elseif x1 < 10
    val = 1;
else
    val = 0;
end
```
★

- **Answer:** No

- **Comment:** Review "Correct Use of if-else-elseif Statement" (p. 101)

```
if 5 > x1
    val = 1;
else 5 <= x1
    val = 0;
end                    (a)
```

```
if 5> x1;
    val = 1;
else
    val = 0;
end                    (b)
```

```
elseif 5 > x1
    val = 1;
else 5 <= x1
    val = 0;
end                    (c)
```

```
if 5> x1
val = 1;
else
val = 0;
end                    (d)
```

M03-Q5: Which of the following scripts have syntax or runtime errors?

```
if 5 > x1
    val = 1;
else 5 <= x1
    val = 0;
end                    (a)
```

```
if 5> x1;
    val = 1;
else
    val = 0;
end                    (b)
```

```
elseif 5 > x1
    val = 1;
else 5 <= x1
    val = 0;
end                    (c)
```

```
if 5> x1
val = 1;
else
val = 0;
end                    (d)
```

- **Answer:** (c)

- **Comment:** Review "How to Write a Formatted Script" (p. 103)