National Centre for Computing Education

Raspberry Pi

First steps

Task 1 Output

Step 1

Type the Python program below in your development environment.

```
print("Hello world!")
```

Step 2

Run your program.

If you encounter an error message, read it and try to fix the problem.

Use the list below to check for common errors (and tick ✓ if you find yours).

- ☐ misspelt `print` (this includes using capitals)
- ☐ missed one or both of `print`'s brackets
- ☐ used square brackets instead of round brackets
- ☐ missed one or both quotation marks around `"Hello world!"`

If your error isn't included in the list, write down how you fixed it.

Step 3

What was the **output** of the program, once you managed to run it successfully?

Step 4

Modify the program so that it displays a different greeting to the user.

Task 2 Assignment

Step 1

Type the Python program below in your development environment
(alternatively, you can **modify** the existing program from the previous task).

```
1 user = "Claude"
2 print("Hello", user)
```

Step 2

What do you **expect** the output of the program to be when you run it?
(Answer this question **before** you run the program.)

Step 3

Run your program.

If you encounter an error message, read it and try to fix the problem.

Use the list below to check for common errors (and tick ✓ if you find yours).

- [ ] missed one or both quotation marks around `"Claude"`
- [ ] missed one or both of `print`'s brackets
- [ ] missed one or both quotation marks around `"Hello"`
- [ ] missed the comma between `"Hello"` and `user`

If your error isn't included in the list, write down how you fixed it.

Step 4

What was the **output** of the program, once you managed to run it successfully?

Step 5

Modify the **assignment** on line 1, so that the program displays a different name when greeting the user. Make it display **your** name!

Task 3

Step 1

Extend the existing program from the previous task by typing in two similar additional statements. Note that line 4 is **incomplete**.

```
1 user = "Claude"
2 print("Hello", user)
3 lucky = 13
4 print(              )
```

Step 2

Complete line 4, so that the output of the program is:

```
Hello Claude
My lucky number is 13
```

Make sure that your program displays the value of the `lucky` variable, not just the number **13**.

Step 3

Run your program.

If you encounter an error message, read it and try to fix the problem.

Write down any errors that you encountered and how you fixed them.

Task 4 Input

Step 1

Modify the first line of the existing program from the previous task.

```
1 print("What's your name?")
2 user = input()
3 print("Hello", user)
```

Step 2

Run your program.

If you encounter an error message, read it and try to fix the problem.

Write down any errors that you encountered and how you fixed them.

Step 3

Once you manage to run the program, you should see this prompt:

```
What's your name?
```

The program is still running: it is executing the `input` function, which is waiting for the user to type something on the keyboard.

Type your name and press Enter. What is the output of the program?

Step 4

Run your program again.

Type a different name and press Enter. What is the output of the program?

Resources are updated regularly — the latest version is available at: ncce.io/tcc.