

# Computing for Mathematics: Handout 1

This handout contains a summary of the topics covered as well as outline of expected progress.

For further practice you can do the exercises available at the Variables, conditionals and loops chapter of Python for Mathematics.

## 1 Expected progress

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At the end of this week you should have a group assigned.

- Agree on a way for your group to stay in touch;
- Schedule 1 or 2 regular meeting times a week to work specifically on the project.
- Have an exchange of early ideas of possible project topics.

At this stage I would expect you to have some ideas written down.

## 2 Summary

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The programming topics covered in the variables, conditionals and loops chapter of Python for Mathematics are:

- Creating variables

```
age = 40
```

- Run code depending on a given condition.

```
if age < 18:  
    party = True  
else:  
    party = False  
age += 1
```

- Check type of a variable

```
type(age)
```

- Repeat code as long as a given condition is met.

```
while boolean_condition:  
    <code to repeat>
```

- Repeat code over a given set.

```
for variable in iterable:  
    <code to repeat>
```