VIET NAM NATIONAL UNIVERSITY HO CHI MINH CITY HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY FACULTY OF COMPUTER SCIENCE AND ENGINEERING



Course name h

Report type h

Report title h

Advisor: Advisor h

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Member list & Workload

No.	Full name	Student ID	Contribution
1	h	xxxxxxx	100%
2	h	xxxxxxx	100%

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1 Normal section

This is how you normally work with LATEX, but you can also split a project into smaller files for easier management. To import other files, you can use \input{} or \include{}. There differences can be found at https://tex.stackexchange.com/a/250, but in short

\include{filename} = \clearpage \input{filename} \clearpage

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2 Better tables

The recommended way is by using the booktabs package and drop all vertical rules. Tabularx is simply tabular but with X environment, meaning that it will try to use all of \linewidth.

	OOP	FP
Pros		
Cons		

More information can be found at https://latex-tutorial.com/tables-in-latex/.

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3 Better enumerator

Normal enumerator gets the job done, but what if you want custom numbering? This implementation allows custom labeling, either by pre-defined rules or in-place.

a.yeah First item

b.yeah Second item

custom Third item

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4 Codeblocks

There are several ways to embed code in a \LaTeX file. Here are inline code, embedded codeblock, and external import.

• External import

```
class iostream:

def __lshift__(self, other):
    print(other, end='')
    return self

def __repr__(self):
    return ''

if __name__ == "__main__":
    cout = iostream()
    endl = '\n'
    cout << "Hello" << ", " << "World!" << endl</pre>
```

• With custom line range

```
if __name__ == "__main__":
    cout = iostream()
    endl = '\n'
    cout << "Hello" << ", " << "World!" << endl</pre>
```

• Embedded

```
class iostream:

def __lshift__(self, other):

print(other, end='')

return self

def __repr__(self):
return ''
```

• Inline

```
print('Hello, world!')
```

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You can also define your custom inline as https://tex.stackexchange.com/a/148479. This is one way to input algorithms.

- 1 Initialize Q-table values (Q(s, a)) arbitrarily;
- 2 Initialize a state (s_t) ;
- 3 Repeat Steps 4 to 6 until learning period ends;
- 4 Choose an action (a_t) for the current state (s_t) using an exploratory policy;
- **5** Take action (a_t) and observe the new state $(s_t + 1)$ and reward $(r_t + 1)$;
- 6 Update Q-value;

Algorithm 1: QL algorithm

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5 Figures with flexible width



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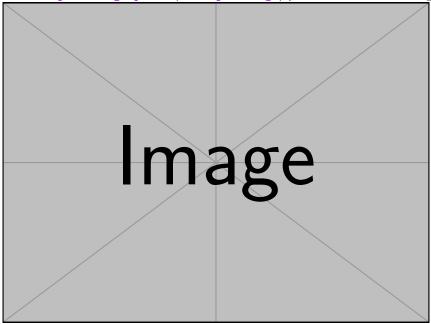
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With $\adjinclude graphics$ (or \adjustimage) you can also use the original width as \width :



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