

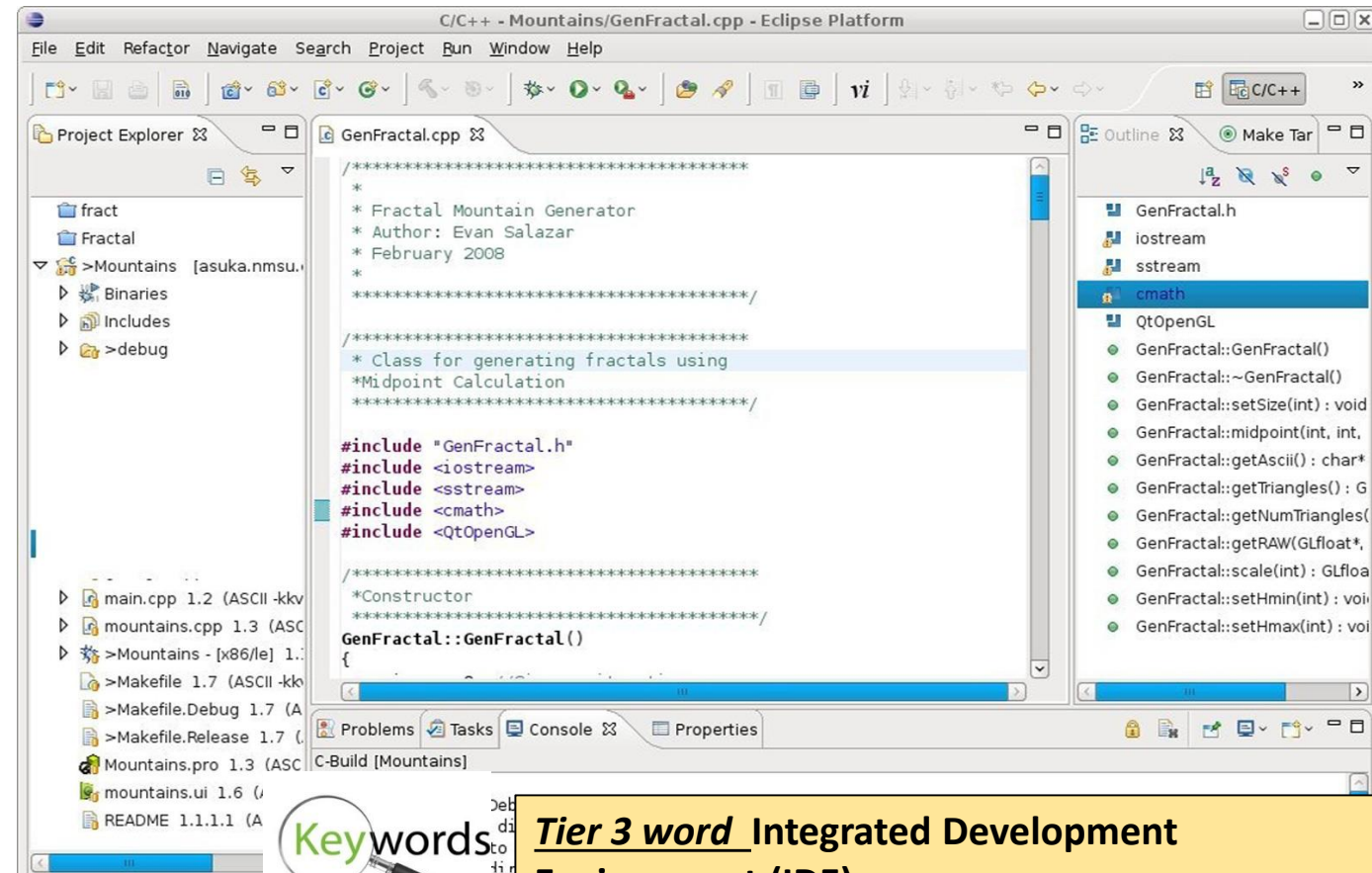
# Big Question: How does an Integrated Development Environment (IDE) help a programmer?

## Learning Intention

**To develop knowledge** by describing what a IDE is

**To secure understanding** by understanding the ways in which the IDE assists in the development and debugging of programs

**To achieve excellence** by Explain the individual role of an IDE tools in developing and debugging programs.



**Tier 3 word** Integrated Development Environment (IDE)

*provides programmers with various tools that are needed to create computer programs.*

File Edit View Navigate Code Refactor Run Tools VCS Window Help

angry-birds-python &gt; src &gt; main.py

Project

angry-birds-python ~/projects/angrybirds/angry-

- ▶ pymunk-4.0.0
- ▶ resources
- ▼ src
  - characters.py
  - level.py
  - main.py
  - polygon.py
- .gitignore
- LICENSE
- README.md
- readme-portugues.txt
- External Libraries

```
1 import ...
6 current_path = os.getcwd()
7 sys.path.insert(0, os.path.join(current_path, "../pymunk-4.0.0"))
8 import pymunk as pm
9 from characters import Bird
10 from level import Level
11
12
13 pygame.init()
14 screen = pygame.display.set_mode((1200, 650))
15 redbird = pygame.image.load(
16     "../resources/images/red-bird3.png").convert_alpha()
17 background2 = pygame.image.load(
18     "../resources/images/background3.png").convert_alpha()
19 sling_image = pygame.image.load(
20     "../resources/images/sling-3.png").convert_alpha()
21 full_sprite = pygame.image.load(
22     "../resources/images/full-sprite.png").convert_alpha()
23 rect = pygame.Rect(181, 1050, 50, 50)
24 cropped = full_sprite.subsurface(rect).copy()
25 pig_image = pygame.transform.scale(cropped, (30, 30))
26 buttons = pygame.image.load(
27     "../resources/images/selected-buttons.png").convert_alpha()
28 pig_happy = pygame.image.load(
29     "../resources/images/pig_failed.png").convert_alpha()
30 stars = pygame.image.load(
31     "../resources/images/stars-edited.png").convert_alpha()
32 rect = pygame.Rect(0, 0, 200, 200)
33 star1 = stars.subsurface(rect).copy()
34 rect = pygame.Rect(204, 0, 200, 200)
35 star2 = stars.subsurface(rect).copy()
36 rect = pygame.Rect(426, 0, 200, 200)
37 star3 = stars.subsurface(rect).copy()
38 rect = pygame.Rect(164, 10, 60, 60)
39 pause_button = buttons.subsurface(rect).copy()
40 rect = pygame.Rect(24, 4, 100, 100)
41 replay_button = buttons.subsurface(rect).copy()
42 rect = pygame.Rect(142, 365, 130, 100)
```

## Tool Windows Quick Access

Hover over the icon below to access tool windows  
Click the icon to make tool windows buttons visible

Got it!

2 processes running... LF+ UTF-8+ Git: master

12 items (6.9 MB), Free space: 502.1 GB



Menu



pycharm-professi...



PyCharm: JetBrains...



angry-birds-pytho...



bin - File Manager



Command Line



LXTerminal



PC



Network



Volume



System

9:50:47 pm

# IDE

1. What does IDE stand for?
2. What does an IDE do?
3. Write good notes on the following IDE tools:

- Editor
- Automatic
  - formatting
  - line numbering
  - colour coding
- Linker
- Libraries
- routines/subroutines
- standard functions
- Loader
- Debugger
- Syntax error detection
- Error diagnostics
- Trace
- Break point
- Variable watch
- Memory inspector
- Statement completion
- Code optimisation
- Compilation
- Interpreter

Create a Mind map  
on Double page  
spread

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