

COMP1511 PROGRAMMING FUNDAMENTALS

Assignment Project Exam Help

<https://tutorcs.com>

WeChat: cstutorcs

# LECTURE 1

"Hello world! Welcome to the best term  
yet :)\n"

# THIS LECTURE

## TODAY....

- Welcome and Introductions
- Course Administration

Assignment • How COMP1511 works

Project • How to get help and the best ways to

Exam • WeChat: cstutorcs approach learning Programming

- What is programming?
- What is Linux and working in Linux
- A first look at C

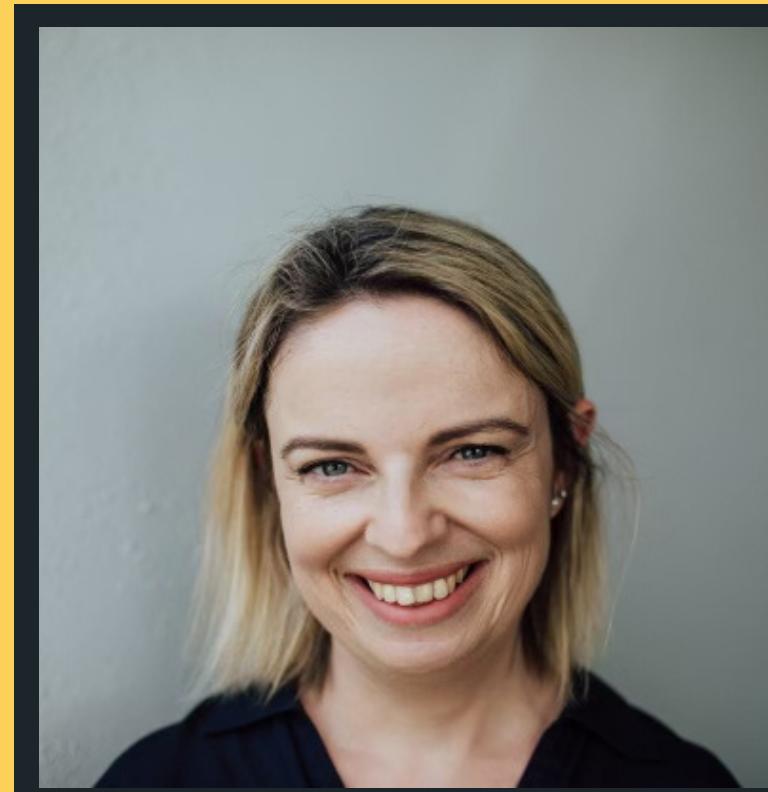
# WHO AM I?



JAX

Teaching Assistant

Loves long walks,  
treaties and pats, does  
not like deliveries



Assignment Project Exam Help  
DR SASHA VASSAR

<https://tutorcs.com>

WeChat: cstutorcs  
Lecturer in  
Charge/Course  
Convenor

Loves dogs, teaching,  
solving complex  
problems and having a  
good yarn...



JUNO

Teaching Assistant

Loves sleeping in  
random places, will  
bark randomly

# THE ADMIN TEAM



Assignment Project Exam Help  
TAMMY ZHONG <https://tutorcs.com> BEN BRIANT

Admin Extraordinaire

Always happy,  
sometimes forgetful,  
likes pink



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Admin Extraordinaire

Forum king (toppled by  
Paula in T2)  
Now chief Sasha mind  
reader

# THE LECTURE MODS



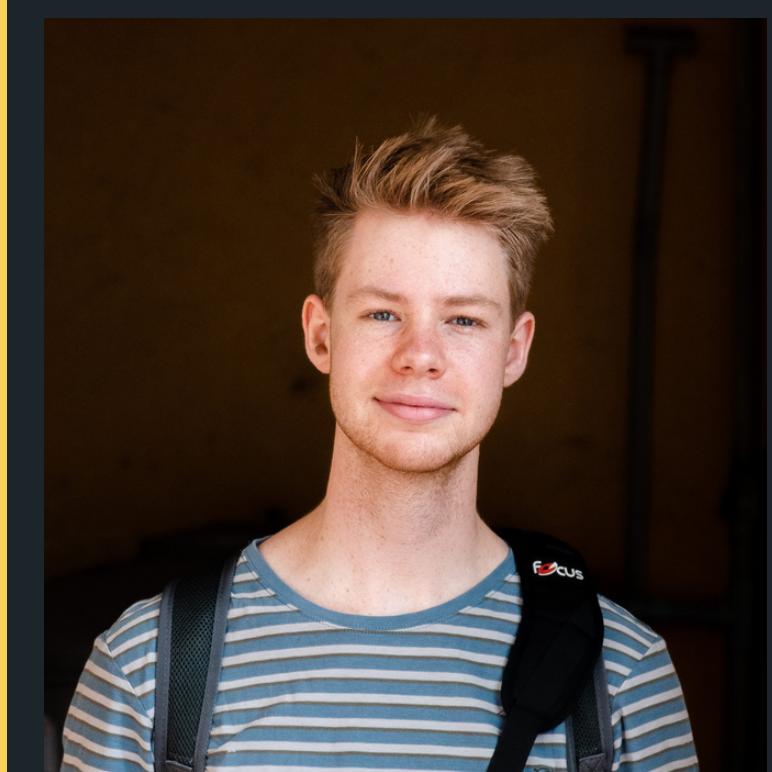
SOFIA DE BELLIS

Assignment Project Exam Help

<https://tutorcs.com>

Official Chocolate  
Thrower

Keeps the lecture chat  
well answered  
Finds the best lecture  
tunes



TOM KILLINGBACK

WeChat: cstutorcs

Mot  
Livingfront

Your chat responder,  
lots of replies turn out  
to be just smilies...  
Sunswift record setter

# THE WONDERFUL TUTORING TEAM

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<https://tutorcs.com>

WeChat: cstutorcs

<https://cgi.cse.unsw.edu.au/~cs1511/23T1/team/>

Assignment Project Exam Help

<https://tutorcs.com>

All course information can be found HERE  
WeChat: cstutorcs  
(not Moodle!)

<https://cgi.cse.unsw.edu.au/~cs1511/23T1/>



# COMMUNICATION

## ADMIN RELATED

### ADMIN RELATED ISSUES:

Email the course email for all admin related enquiries:  
[cs1511@unsw.edu.au](mailto:cs1511@unsw.edu.au)

### FOR ANY ENROLMENT ISSUES:

UNSW Nucleus Student Hub  
Assignment Project Exam Help  
<https://nucleus.unsw.edu.au/en/contact-us>  
<https://tutorcs.com>

WeChat: cstutorcs  
ELP PLANS

If you have an ELP plan in place, please email me directly on [a.vassar@unsw.edu.au](mailto:a.vassar@unsw.edu.au)

# **COMMUNICATION**

## **COURSE CONTENT**

### **RELATED**

#### **FORUM**

Post all your questions here and feel free to answer other's questions

<https://edstem.org/au/courses/10623/discussion/>

ASK QUESTIONS IN TUT/LABS  
Assignment Project Exam Help

<https://tutorcs.com>

WeChat: cstutorcs  
HELP SESSIONS

Schedule will be announced shortly

Good place to get help outside of normal lab/tutorial times

# SO WHAT IS COMP1511?

- It is your intro to programming
- This is where the journey starts :)
- Computers can only follow instructions  
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<https://tutorcs.com>  
WeChat: cstutorcs
- Writing a program is providing the computer with a set of instructions
- Problem solving is a very important skill, can only be built up with practice!

# COURSE FORMAT

- We assume no prior knowledge & zero previous programming experience
- We teach you the fundamentals of programming, how to approach and

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solve problems, and how to talk to  
<https://tutorcs.com>  
computers in a common language  
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# **LECTURES**

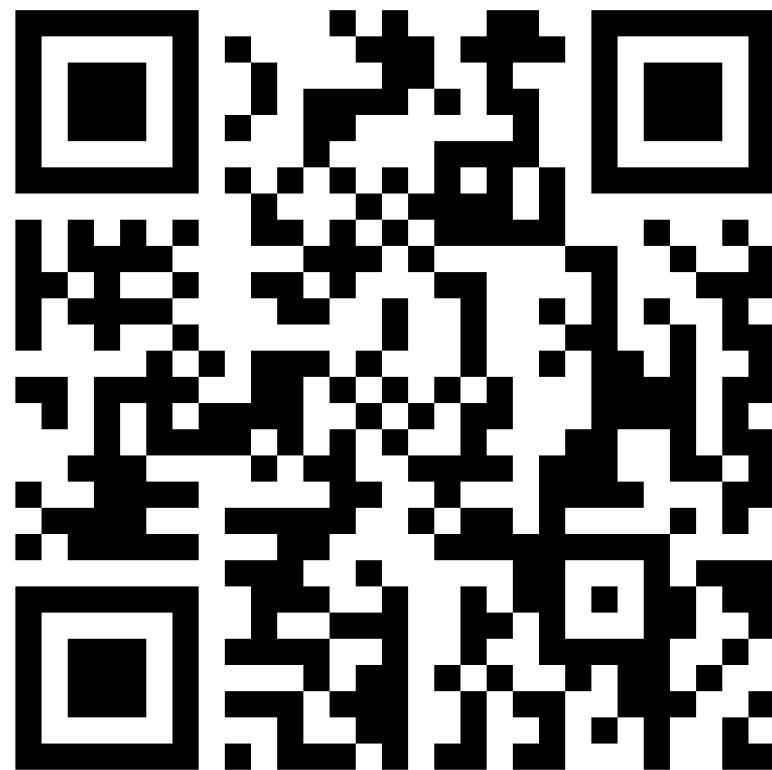
## **TWO HOUR**

### **SESSION TWICE A**

### **WEEK**

- Live in CLB6 and streamed online via YouTube Live (recordings will be available)
  - Monday 11am-1pm (AEDT)
  - Thursday 12pm-2pm (AEDT)
- Assignment Project Exam Help  
• Week 6 is Flex Week, so no formal lectures!
- https://tutorcs.com  
• If you have a question, feel free to ask in live WeChat: cstutorcs chat
- Please be respectful of others at all times - everyone is here to learn.

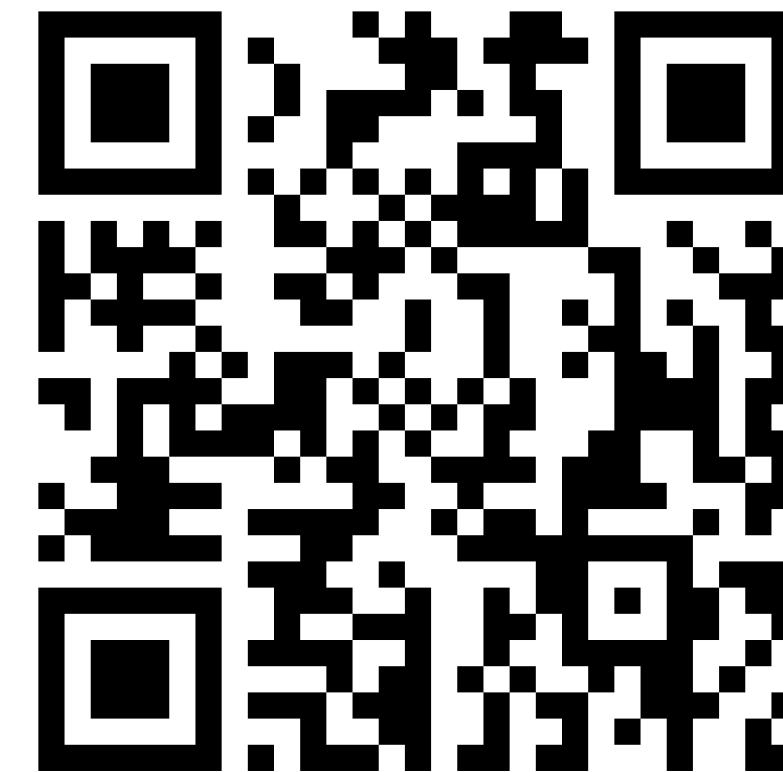
# LECTURE CONTENT



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- Theory - What are we trying to understand?
- Demonstrations - Some live coding to show you how some things work
- Problem Solving - How do we decide what to code?  
Other stuff - Outside of programming, what's important?  
<https://tutores.com>
- Lecture slides (and other materials) are available from the Course Website  
<https://cgi.cse.unsw.edu.au/COMP1511/23T1/>
- Lecture recordings will be in the YouTube playlist and linked via the Course Website

# TUTORIALS ONE HOUR CLASSROOM ENVIRONMENT



- Go further in depth into the topics we're teaching
  - Actual practical working of tasks and problems we've given you
  - Learning how to solve problems before you write the code!
- Assignment Project Exam Help
- Tutorial Questions will be available in advance of <https://tutores.com>
- WeChat: cstutors
- <https://cgi.cse.unsw.edu.au/COMP1511/23T1/>

# **TUTORIALS**

## **ONE HOUR**

### **CLASSROOM**

#### **ENVIRONMENT**

"Tutorials are a good place for interactive learning.  
You'll have time to discuss and work through  
problems there."

- Online and face-to-face: please check your timetable for your enrolment details  
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For online classes, use Teams  
<https://tutorcs.com>  
WeChat: cstutors  
Please turn on your cameras if you can
  - We love seeing pets make an appearance
- Sample answers released after the last tutorial for the week

# **LABS**

## **TWO HOUR SESSION COMES DIRECTLY AFTER TUTORIAL**

- Practical coding including working in small groups
- Time to have one on one conversations with your tutors
- Problem sets will be marked automatically and Assignment Project Exam Help count towards your final marks (15% total over the term)  
<https://tutorcs.com>  
WeChat: cstutorcs
- There are challenge exercises for earning bonus marks (not necessary and some are hard enough that they'll eat up a lot of time)
- Tutorials and Labs do NOT run in Week 6

# ASSIGNMENTS LARGER SCALE PROJECTS

"Start the assignments early, so that you have time to chip away and get help as needed."

- Individual work
- These will take you a few weeks and will test

how well you can apply the theory you've learnt  
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- There are two Assignments due:

WeChat: Assignment Help Assignment 1 - 20% (Monday 8pm Week 7)

- Assignment 2 - 25% (Friday 8pm Week 10)

- Late penalties of 5% per day late apply off the ceiling (maximum lateness is five days, after which time it is zero marks)

# **HELP SESSIONS OPTIONAL SESSIONS SCHEDULED DURING THE WEEK**

"A great place to ask questions and get help to fill any gaps."

- Held both in-person and some online, using Teams
- Face-to-face help sessions will have lab spaces allocated  
<https://tutors.com>
- Some one-on-one consultation with tutors
- Time for you to ask individual questions or get help with specific problems
- Schedule will be up on the Course Website soon
- These are particularly busy around Assignment deadlines

# PASS SESSIONS

## PEER ASSISTED STUDY SESSIONS

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<https://tutores.com> Chat through study hacks and tips on

WeChat: cstutorcs managing time and assignments

- You can come to:
  - Ask questions about specific problems from lectures, tutorials and labs
  - Work on a variety of problems with friendly and experienced student leaders
- PASS begins in Week 3 and ends in Week 10.
- You can attend any class you like! It's great to come each week and you can also pop in only when you need help - it's up to you.

# PASS SESSIONS

## PEER ASSISTED STUDY SESSIONS

- Visit [student.unsw.edu.au/pass](http://student.unsw.edu.au/pass) for more information or email [pass@unsw.edu.au](mailto:pass@unsw.edu.au) with any questions.
- In-person or online STARTING IN WEEK 3

Assignment	Day	Project	Exam	Help	Time	Place	PASS Leader
	<b>Wednesday</b>				12pm	Quad G040	Adrian Lim
<a href="https://tutorcs.com">https://tutorcs.com</a>	<del>Wednesday</del>				3pm	Teams PASS Channel	Danil Golovanov
WeChat: cstutorcs	<b>Thursday</b>				2pm	Teams PASS Channel	Adrian Lim
	<del>Thursday</del>				5pm	Elect Eng G04	Danil Golovanov

# OPTIONAL FEEDBACK AND REFLECTION MODULE



We believe in the importance of feedback and helping you learn through that feedback!

- Running an optional module in Formatif
- Login using: <https://formatif.cse.unsw.edu.au/>
- We will add you to the module AFTER login

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- There will be weekly OPTIONAL feedback

<https://tutorcs.com>  
WeChat: cstutorcs

# OPTIONAL FEEDBACK AND REFLECTION MODULE

 **formatif.**<sup>®</sup>



STEP 1: Upload code from your problem set

- Choose one problem from the past week's problem set and upload the problem code that you found particularly interesting or challenging
- Use the task dropdown to select "Ready for Assignment Project Exam Help Feedback" and upload your file.

<https://tutorcs.com>  
STEP 2: Using the discussion panel, provide your tutor WeChat: cstutorcs with a discussion prompt

- Talk about what you found interesting/challenging or an aspect of the code that you would like some feedback on
- Reflect on your solution to the problem, and discuss another potential way of solving this problem

# **FINAL EXAM**

## **TAKE-HOME OPEN-BOOK EXAM**

- IN-PERSON
- Expected workload of around 3 hours total
- You'll be given a series of problems to solve in C
- You will also be expected to read some C and show you understand it

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- There will also be some questions covering  
<https://tutorcs.com>  
WeChat: cstutorcs

### Exam Hurdles

- Parts of the exam are competency hurdles
- These questions must be answered correctly to pass the course

# TOTAL ASSESSMENT

Labs = 15%

Assignment 1 = 20%

Assignment 2 = 25%

Final Exam = 40%

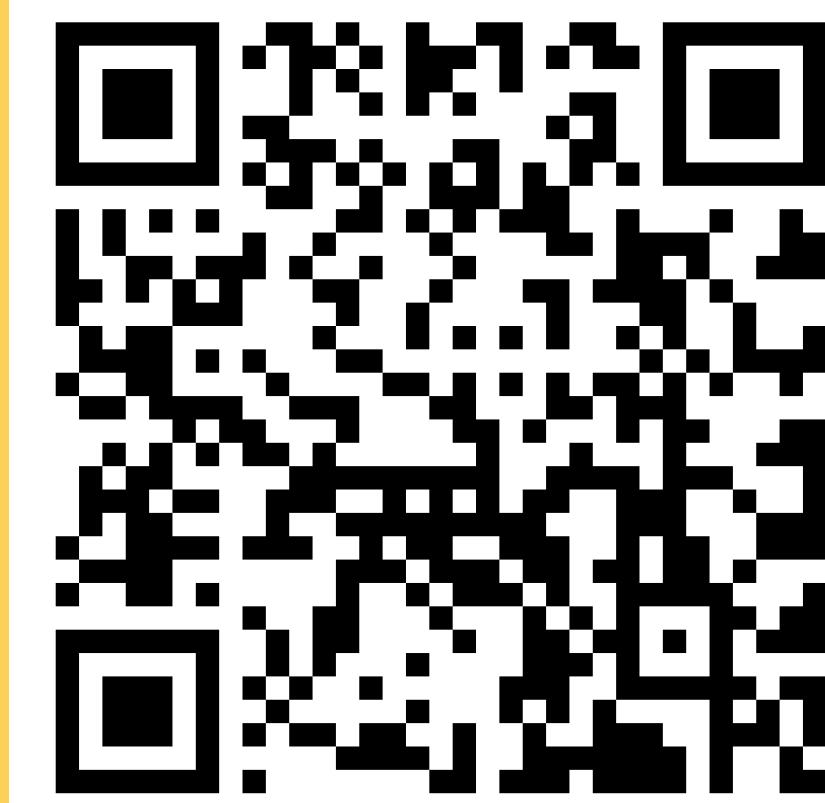
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To pass the course you must:

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<https://tutorcs.com>

- Score at least 50/100 overall
  - Solve problems using arrays in the final exam
  - Solve problems using linked lists in the final exam

# SPECIAL CONSIDERATION



## Special Consideration:

- Support for any issues that make it difficult for you to study
- <https://student.unsw.edu.au/special-consideration>

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- You can apply now if you have existing reasons  
<https://tutorcs.com>  
WeChat: cstutorcs  
(or later if something comes up)

If you have an ELP plan, please email it directly to me:

a.vassar@unsw.edu.au

# **EQUITABLE LEARNING PLANS**

If you have an ELP plan, please email it directly to me:

a.vassar@unsw.edu.au

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<https://tutorcs.com>

WeChat: cstutorcs

# SUPPLEMENTARY ASSESSMENT

A Supplementary exam can be offered to students granted Special Consideration for the exam

- Fit-to-Sit rule
  - Identical in format to the main exam
- Assignment Project Exam Help
- Held sometime in May (will update this as soon as dates are released, so you must make yourself available if you have been granted a supplementary exam)
- <https://tutorcs.com>
- WeChat: cstutorcs

# CODE OF CONDUCT

This course and this University allows all students to learn, regardless of background or situation  
Remember the one rule . . . you will not hinder anyone else's learning!

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Anything connected to COMP1511, including social

~~WeChat: cstutorcs~~ will follow respectful behaviour

- No discrimination of any kind
- No inappropriate behaviour
  - No harassment, bullying, aggression or sexual harassment
- Full respect for the privacy of others

# PLAGIARISM

"If you don't spend the time to learn and practice the content, the only person who loses is you."

- Plagiarism is the presentation of someone else's work or ideas as if they were your own.  
Assignment Project Exam Help  
<https://tutorcs.com>  
WeChat: cstutorcs
- Any kind of cheating on your work for this course will incur penalties (see the course outline for details)
- Collaboration on individual assessments like Assignments is considered plagiarism

# COLLABORATION VS PLAGIARISM

"Discussion of work and algorithms is fine (and encouraged)."

- The internet has a lot of resources you should learn to use just make sure you credit your Assignment Project Exam Help sources  
<https://tutorcs.com>
- No collaboration at all on individual assignments
  - Your submissions are entirely your own work
  - Don't use other people's code
  - Don't ask someone else to solve problems for you (even verbally)
  - Don't provide your code to other people

# COLLABORATION VS PLAGIARISM

- At best, you'll lose the marks for the particular assignment
- At worst, you'll be asked to leave UNSW
- And even worse . . . you won't learn what you

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<https://tutorcs.com>

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# IF YOU WANT MORE INFO . . .

- Course webpage
- Course forum
- Recorded Lectures (replay YouTube Streams or via Moodle)

• One on One  
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Ask your tutor during lab sessions  
<https://tutorcs.com>

WeChat: cstutorcs Help Sessions

- Serious Issues
  - Email: [cs1511@unsw.edu.au](mailto:cs1511@unsw.edu.au)
  - The Nucleus: [nucleus.unsw.edu.au](http://nucleus.unsw.edu.au)
  - CSE Help Desk:

<http://www.cse.unsw.edu.au/~helpdesk/>

# Student Support | I Need Help With...

## My Feelings and Mental Health

Managing Low Mood, Unusual Feelings & Depression



### Mental Health Connect

[student.unsw.edu.au/counselling](http://student.unsw.edu.au/counselling)  
Telehealth



### Mind HUB

[student.unsw.edu.au/mind-hub](http://student.unsw.edu.au/mind-hub)  
Online Self-Help Resources



**In Australia Call Afterhours  
UNSW Mental Health Support Line**

1300 787 026  
5pm-9am



**Outside Australia Afterhours  
24-hour Medibank Hotline**

+61 (2) 8905 0307

## Uni and Life Pressures

Stress, Financial, Visas, Accommodation & More



**Student Support  
Indigenous Student Support**

**Assignment Project Exam Help**

– [student.unsw.edu.au/advisors](http://student.unsw.edu.au/advisors)  
– [nura-qili-centre-indigenous-programs](http://nura-qili-centre-indigenous-programs)

## Reporting Sexual Assault/Harassment



**Equity Diversity and Inclusion (EDI)**

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– [edi.unsw.edu.au/sexual-misconduct](http://edi.unsw.edu.au/sexual-misconduct)

## Educational Adjustments

To Manage my Studies and Disability / Health Condition



**Equitable Learning Services (ELS)**

– [student.unsw.edu.au/els](http://student.unsw.edu.au/els)

## Academic and Study Skills



**Academic Skills**

– [student.unsw.edu.au/skills](http://student.unsw.edu.au/skills)

## Special Consideration

Because Life Impacts our Studies and Exams



**Special Consideration**

– [student.unsw.edu.au/special-consideration](http://student.unsw.edu.au/special-consideration)

# LEARNING IS HARD...

"Learning programming is a secondary skill (like many others!) – it is not intuitive like learning how to speak..."

Secondary skills are learnt slowly and with conscious and deliberate effort. It is not magic and it will not happen overnight, you have to keep practising and building up your knowledge base. Don't feel disheartened if you do not understand something first go - try and try again, get help, let us know if <https://tutorcs.com> We Chat: cstutorcs there is something that is just not making sense. Make sure to attempt all your labs questions and assignments, working through these problems will help you build an understanding of how to solve similar problems, and how to use code to solve these.

# BREAK TIME!



## FUSES

Merlin has to let a potion rest for precisely 45 minutes, but he doesn't have any instrument for measuring time. He does, however, have a Assignment Project Exam Help  
<https://tutorcs.com> flame and two fuses, which he knows each take an hour to burn, but not in a regular way (half of the fuse won't be burned in 30 minutes). How can the wizard measure exactly 45 minutes?

# WHAT IS A COMPUTER?

# A TOOL . . . A MACHINE . . . THE LOVE OF MY LIFE...

The ultimate tool in its ability to be reconfigured for different purposes.

# The key elements:

- A processor to execute commands

## Some trivia:

# WHAT IS PROGRAMMING?

- Providing a computer with specific instructions to solve various problems
  - Using specific languages to write those instructions (code)

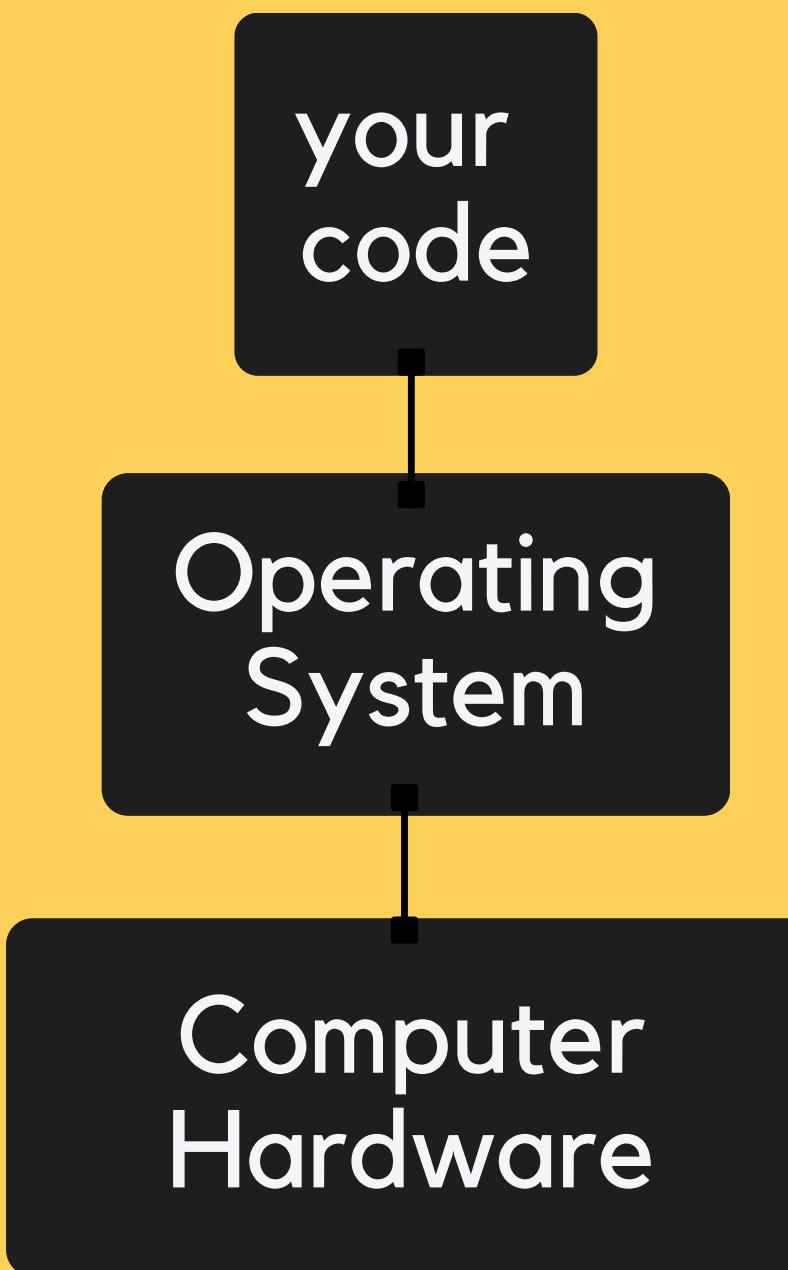
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<https://tutorcs.com>

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- At the core of it - problem solving!
  - You may go through many iterations before you get it right
    - mistakes are good!

# WHAT IS AN OPERATING SYSTEM?

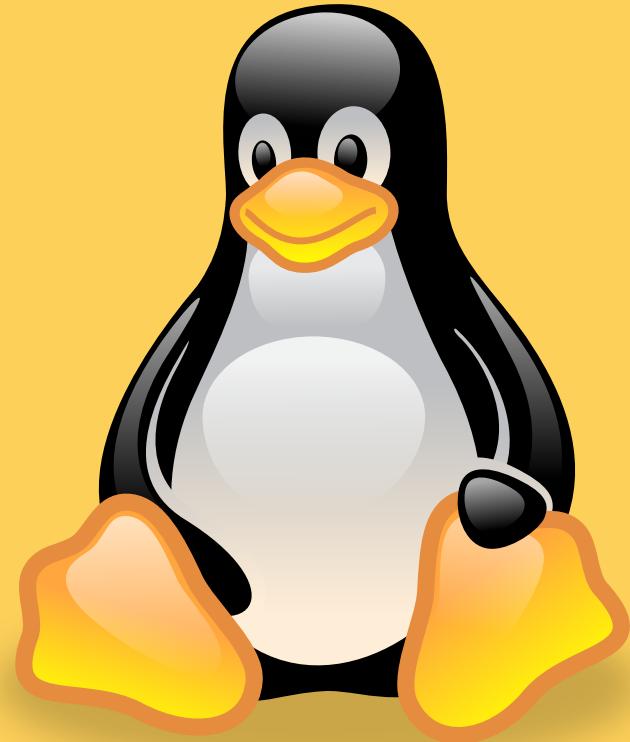


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- An Operating System is the interface between the user and the computer hardware
- Operating Systems:
  - Execute user programs and make solving problems easier
  - Make the computer system convenient to use  
<https://tutorcs.com>
- Basically, an Operating System sits between our code and the computer, providing essential services

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# WHAT IS LINUX?



- Linux is a Unix-based operating system:

- Open source
- More reliable
- Lightweight

- Faster, and

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- More secure

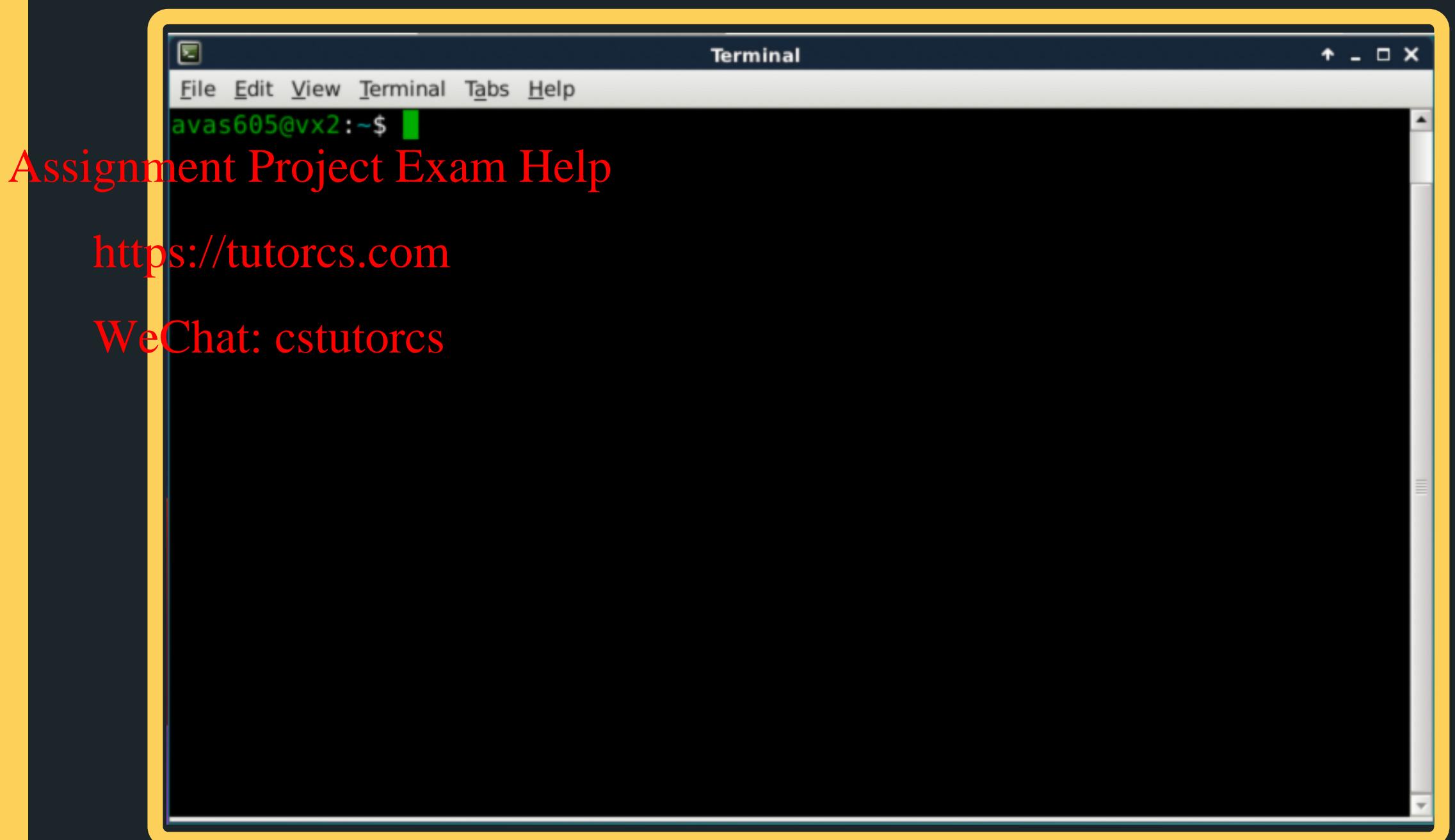
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# **TERMINAL**

## **A GRAPHICAL APPLICATION THAT READS/DISPLAYS INFORMATION**

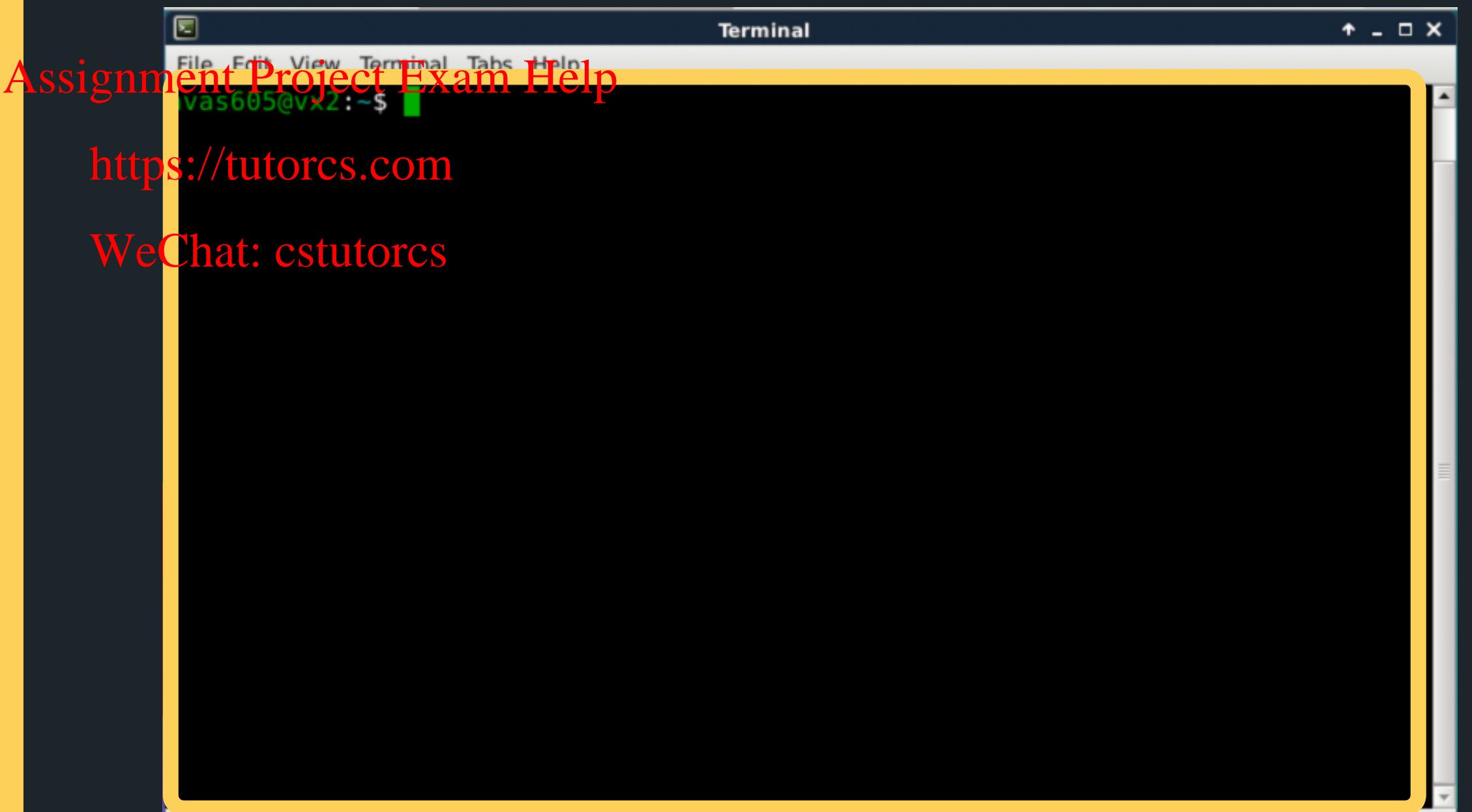
- Terminal (command line driven) allow us to send simple text commands to our shell. It handles things like user input, displaying shell output.



# SHELL

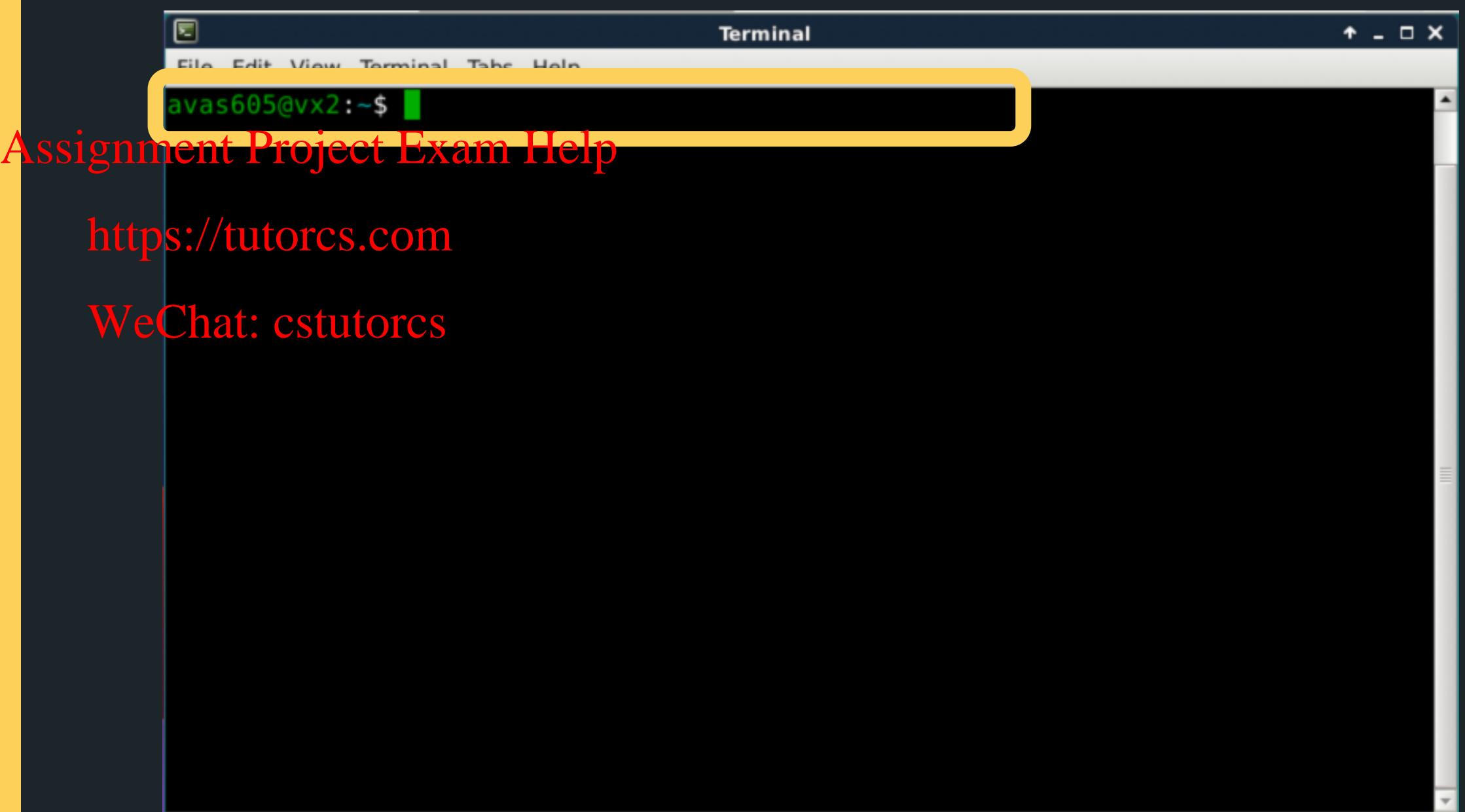
## PRIMARY INTERFACE WITH THE COMPUTER

- The shell, (bash, zsh) is a program that executes commands, and has its own syntax. It returns output which the terminal can display, or can launch other applications



# PROMPT

- The prompt is controlled by the shell, and is the line of text which displays some information



# SOME IMPORTANT TERMINAL COMMANDS

- Lists all the files in the current directory:  
**ls**
- Makes a new directory called **directoryName**:  
**mkdir directoryName**
- Changes the current directory to **directoryName**:  
**cd directoryName**
- Moves up one level of directories (one folder level):  
**cd ..**
- Tells you where you are in the directory structure at the moment:  
**pwd**

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<https://tutorcs.com>

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# COMMAND LINE AND FILE OPERATIONS

File operations on the command line

- Copy a file from the source to the destination

**cp source destination**

- Move a file from the source to the destination (can also be used to rename)

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**mv source destination**  
<https://tutorcs.com>

- Remove a file (delete)

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**rm filename**

The -r tag can be added to cp or rm commands to recursively go through a directory and perform the command on all the files

**cp -r COMP1511 COMP1511\_backup**

(will copy all files from my COMP1511 directory to my COMP1511\_backup directory)

# USING CSE'S COMPUTING RESOURCES

Our labs are running Linux with the basic tools necessary to get started

You will definitely want to get your own computer ready to code with:

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- VLAB allows you to remotely use CSE's resources -  
<https://tutorcs.com>

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instructions on setting this up available in the first laboratory

- There are other more advanced options that we can help you with also - check the Home Computing site or the guides on our course website

# WHAT THE BASICS LOOK LIKE

For COMP1511 we need:

- A development environment (we will use a minimal version of VSCode)
  - Run **1511 setup** to get everything ready (you will do this in your first Lab)
- A compiler (we use **dcc**)  
<https://tutorcs.com>
  - A translator that takes our formal human readable C and turns it into the actual machine readable program
  - The result of the compiler is a program we can "run"
- You can use VLAB to access CSE's editor and compiler

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• A compiler (we use **dcc**)  
<https://tutorcs.com>

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# PROGRAMMING IN C

**PROGRAMMING IS  
LIKE TALKING TO  
YOUR COMPUTER**

- We need a shared language to be able to have this conversation
- Well be looking at one particular language, C and learning how to write it. C is:
  - A clear language with defined rules so that nothing we write in it is ambiguous
  - Many modern programming languages are based on C
  - A good starting point for learning how to control a computer from its roots

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nothing we write in it is ambiguous

<https://tutorcs.com>

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# LET'S C SOME C

## SORRY CAN'T HELP MYSELF!

```
1 // A demo program showing output in C
2 // Welcome to COMP1511 : )
3 // Buckle in, you are in for a ride!
4 //
5 // Sasha, T123
6
7 https://tutorcs.com
8 #include <stdio.h>
WeChat: cstutorcs
9 int main(void){
10     printf("Welcome to COMP1511!\n");
11     return 0;
12 }
```

# BREAKING IT DOWN INTO PARTS

## HEADER (LINES 1-5)

```
1 // A demo program showing output in C
2 // Welcome to COMP1511 :)
3 // Buckle in, you are in for a ride!
4 //
5 // Sasha, T123
6
7 #include <stdio.h>
8
9 int main(void){
10     printf("Welcome to COMP1511!\n");
11     return 0;
12 }
```

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code

<https://tutorcs.com>

- // in front of a line makes it a comment
- If we use /\* and \*/ everything between them will be comments
- The compiler will ignore comments, so they don't have to be proper code

- Words for humans
- Half our code is for the machine, the other half is for humans! (roughly)
- We put “comments” in to describe to our future selves or our colleagues what we intended for this

# BREAKING IT DOWN INTO PARTS

## #INCLUDE IS A SPECIAL TAG FOR OUR COMPILER (LINE 7)

```
1 // A demo program showing output in C
2 // Welcome to COMP1511 :)
3 // Buckle in, you are in for a ride!
4 //
5 // Sasha, T123
6
7 #include <stdio.h>
8
9 int main(void){
10     printf("Welcome to COMP1511!\n");
11     return 0;
12 }
```

- It asks the compiler to grab another file of code and add it to ours
- In this case, it's the Standard Input Output Library, allowing us to make text appear on the screen (as well as other things)

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- Almost every C program you will write in this course will have this line

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- Almost every C program you will write in this course will have this line

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# BREAKING IT DOWN INTO PARTS

## THE "MAIN" FUNCTION (LINES 9-12)

```
1 // A demo program showing output in c
2 // Welcome to COMP1511 :)
3 // Buckle in, you are in for a ride!
4 //
5 // Sasha, T123
6
7 #include <stdio.h>
8
9 int main(void){
10     printf("Welcome to COMP1511!\n");
11     return 0;
12 }
```

- A function is a block of code that is a set of instructions that returns something
- Our computer will run this code line by line, executing our instructions
  - The first line has details that we'll cover in later Assignment Project Exam Help lectures  
<https://tutorcs.com>  
WeChat: cstutorcs
    - **int** is the output (return) type - this stands for integer, which is a whole number
    - **main** is the name of the function
    - **(void)** means that this function doesn't take any input

# BREAKING IT DOWN INTO PARTS

## THE "MAIN" FUNCTION

```
1 // A demo program showing output in C
2 // Welcome to COMP1511 :)
3 // Buckle in, you are in for a ride!
4 //
5 // Sasha, T123
6
7 #include <stdio.h>
8
9 int main(void){
10     printf("Welcome to COMP1511!\n");
11     return 0;
12 }
```

Assignment Project Exam Help  
included.

<https://tutorcs.com>  
**printf("Hey!\\n");**

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- Between the { and } are a set of program instructions
- {}
- printf() makes text appear on the screen. It is actually another function from stdio.h which we included.
- return is a C keyword that says we are now delivering the output of the function. A main that returns 0 is signifying a correct outcome of the program

**return 0;**

# EDITING AND COMPIRATION

LET'S TRY THIS IN OUR EDITOR AND COMPILE IT

```
Terminal - avas605@vx06:~$ code welcome.c
avas605@vx06:~$ dcc welcome.c -o welcome
avas605@vx06:~$ ./welcome
Welcome to COMP1511!
avas605@vx06:~$
```

- In the linux terminal we will open the file to edit  
**code hey.c**
- Once we're happy with the code we've written, we'll compile it  
**dcc hey.c -o hey**
  - The -o part tells our compiler to write out a file called "hello" that we can then run
- The ./ lets us run the program "hello" that is in our current directory  
**./hey**

# AND WE ARE OFF!

**WE NOW HAVE OUR  
FIRST WORKING  
PROGRAM...**

- Try this yourself!
- Try it using VLAB via your own computer
- Try setting up a programming environment on your own computer  
Assignment Project Exam Help  
(differing levels of difficulty  
<https://tutorcs.com>  
WeChat: cstutorcs  
depending on your operating system)

# SOME INTERESTING FACTS/TRIVIA

Did you know that the first computer in the world, ENIAC, weighed more than 27 tonnes and covered an area of about 1800 square feet?

Designing the correct configuration for each new problem, and then connecting the wires and setting the switches, took many days.

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<https://www.computerhistory.org/revolution/birth-of-the-computer/4/78>

# WHAT DID WE LEARN TODAY?

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ADMIN

RESOURCES

HELP!  
WeChat: cstutorcs

LINUX

C

How COMP1511 is run

Where to find  
resources (course  
webpage and forum)

How to get help and  
best ways to  
approach learning  
programming

What is  
programming?  
What is an  
Operating System?  
What is Linux?

Some basic Linux  
commands to get you  
started

Hello World!\n

# REACH OUT



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## CONTENT RELATED QUESTIONS

Check out the forum

## ADMIN QUESTIONS

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