



Design Thinking PROGRAMMING LANGUAGES

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INTRODUCTION

A programming language provides a way for programmer to give instruction and express a task so it could be understood and executed by the computer. There are many programming language that used for lots of purpose for example Java, Java Script, C, C++, Python, PHP and many more.

OBJECTIVES

Help students learning Programming Language
more efficiently

DESIGN THINKING PHASES

Design thinking is a process for creative problem solving. Design thinking has a human-centered core. It encourages organizations to focus on the people they're creating for, which leads to better products, services, and internal processes.



EMPATHY

empathize and understand
the consumer needs



IDEATE

brainstorming the idea on
how to solve the problem
faced by consumer



PROTOTYPE

Design a prototype based on
our ideas.



TESTING

Conduct a testing on our
device.



EMPATHY

Empathy



Interview session with first year
student



to understand the problem they
face in studying C++



DEFINE

Define

[4]

Interviewer 1

The time consume in trying
to search the correct term for
Programming language C++



Interviewer 2

Error in compiling the
program because of missing
semicolon etc

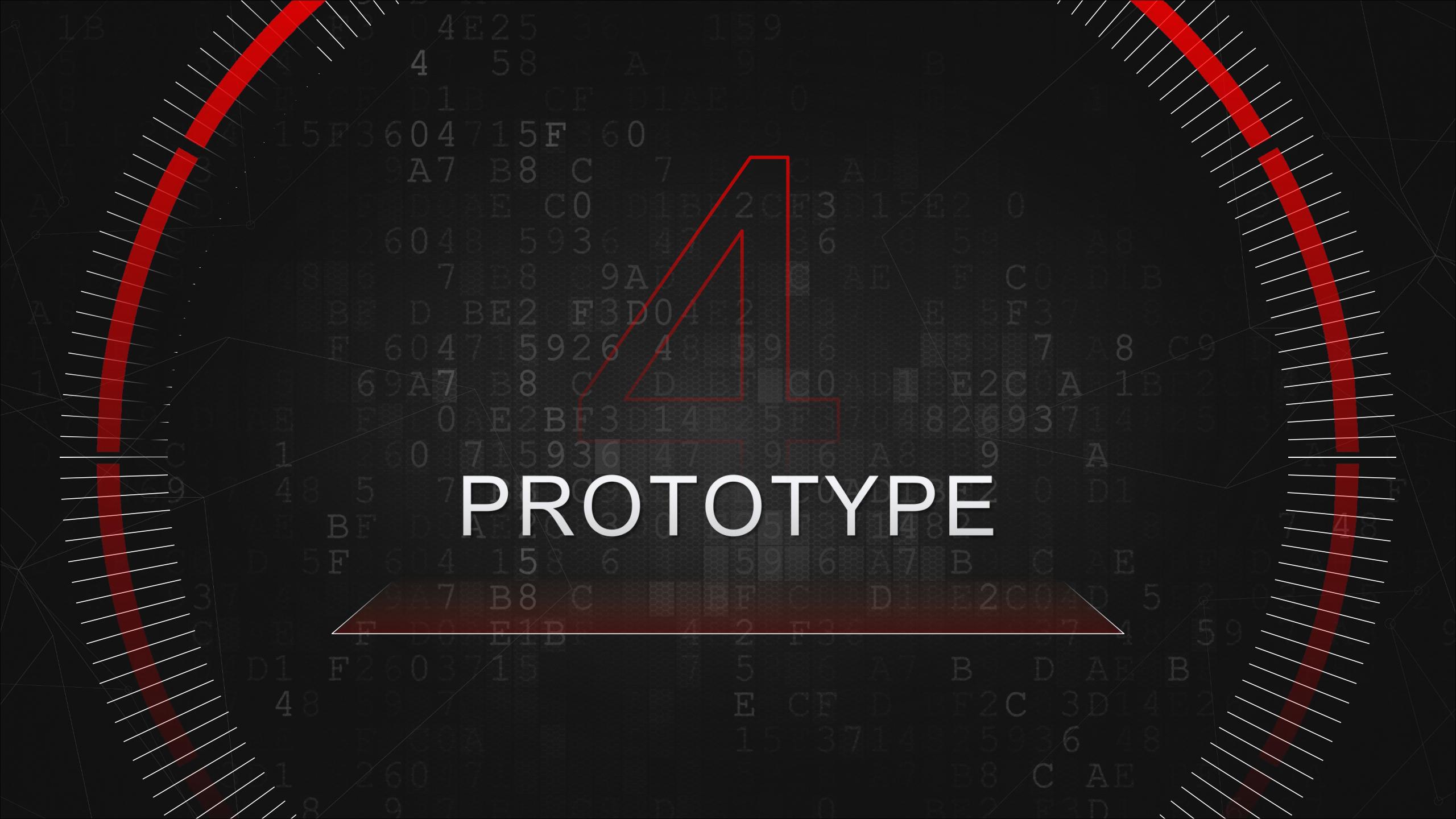


IDEATE

Ideate

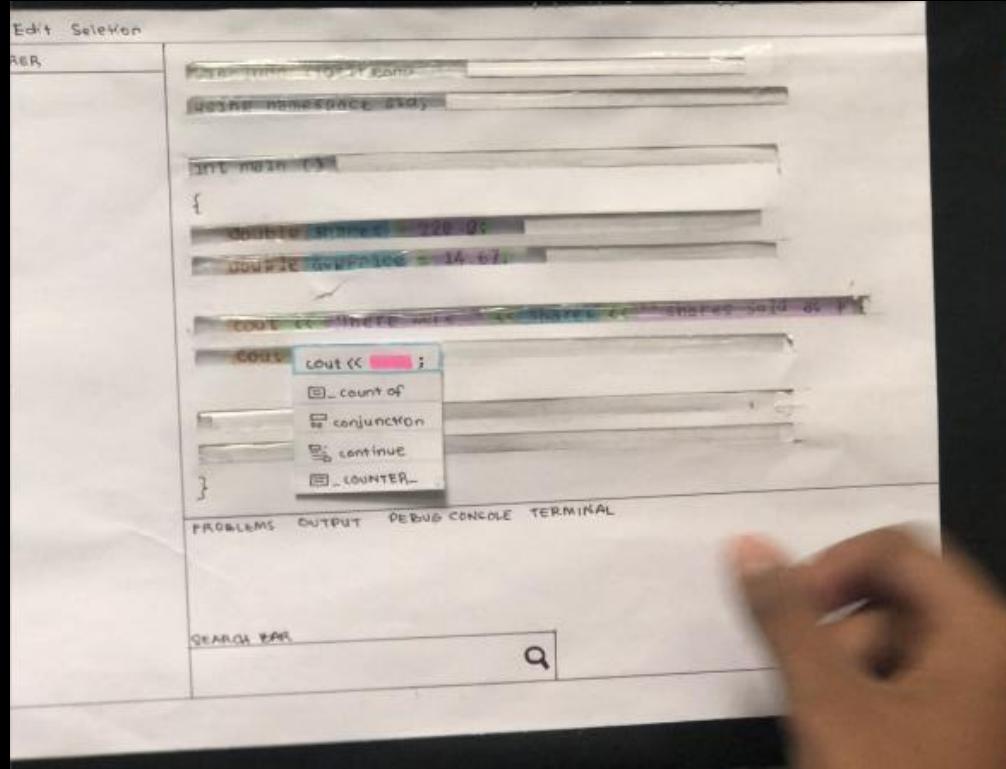


Brainstorming on how to create a device to help these students.

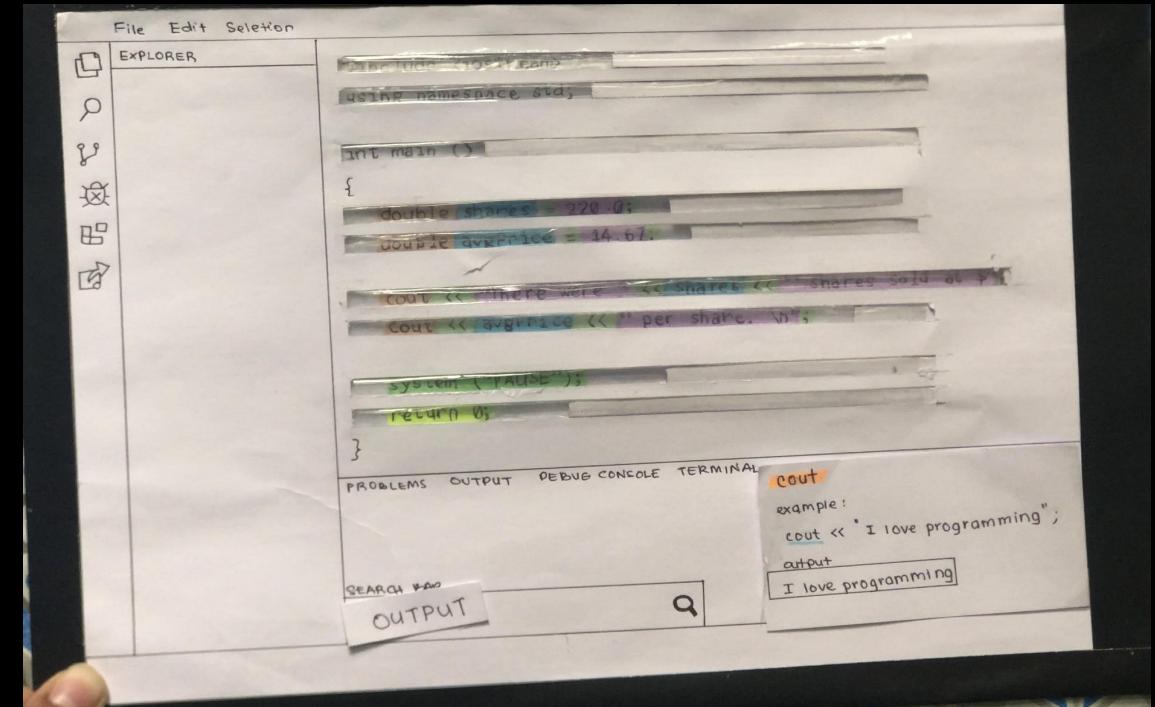


PROTOTYPE

Prototype



```
int main () {  
    double shares = 220.0;  
    double avgPrice = 14.67;  
  
    cout << "There were " << shares << " shares sold at " << avgPrice << endl;  
  
    cout << endl;  
    cout << "The average price per share is " << avgPrice << endl;  
  
    system ("PAUSE");  
    return 0;  
}
```



```
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```



TESTING

Testing

01

Open our device

04

When the right display
shown, we know that our
device is a success

02

Write a simple
program

03

Enter “output” in our
search bar (example)



THANKS

