

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.

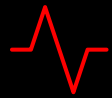


OBJECTIVES

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.



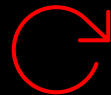
EMPATHY

empathize and understand
the consumer needs



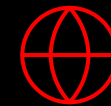
DEFINE

analyze and synthesis
the problems



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++

The image features a dark background with a faint, repeating pattern of hexadecimal characters (0-9, A-F) in a light gray color. Two thick, red, curved lines, resembling arcs of a circle, frame the central text. A thin, red outline of a question mark is positioned above the word 'DEFINE'.

DEFINE

Define



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

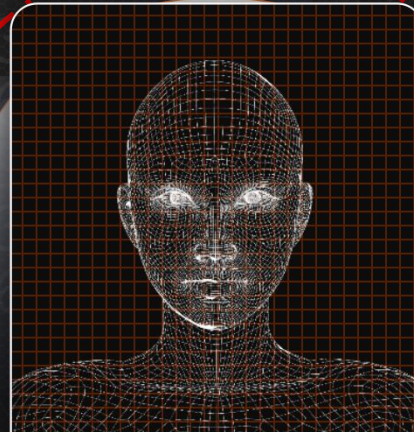


IDEATE

Ideate

Search bar

smart compose

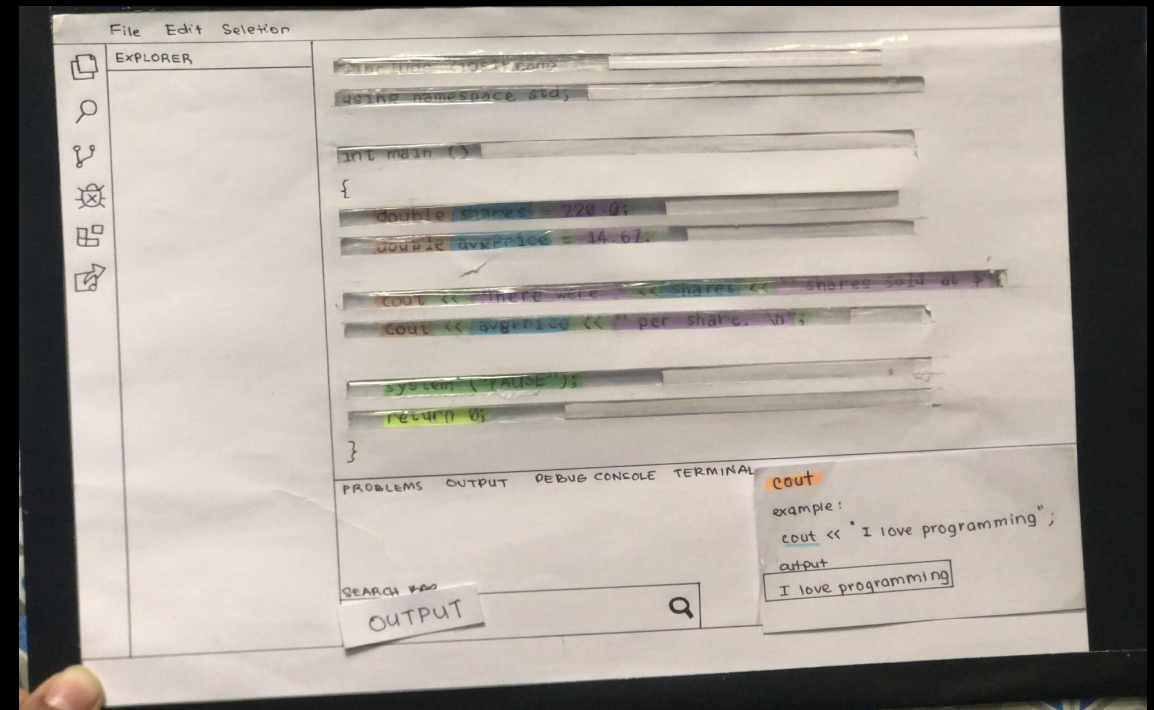
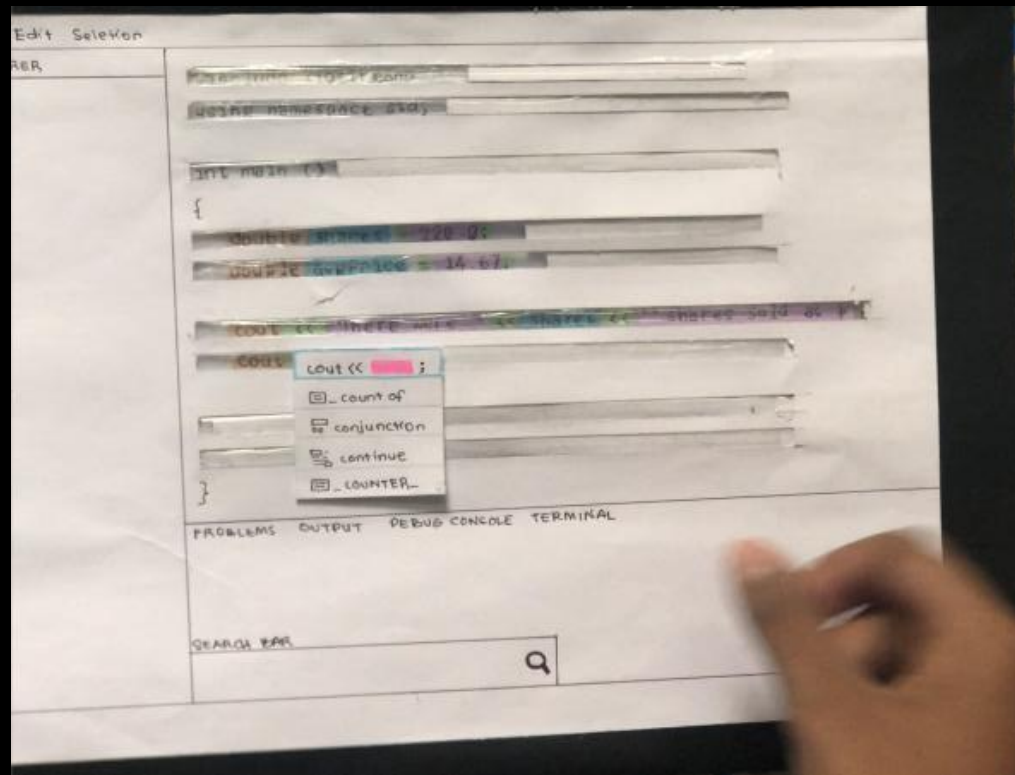


Brainstorming on how to create a device to help these students.



PROTOTYPE

Prototype





TESTING



Testing

Open our device

01

Write a simple
program

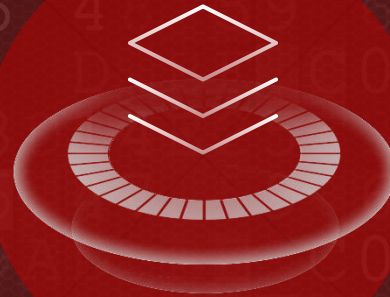
02

04

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

03

Enter "output" in our
search bar (example)



The background is a dark, futuristic digital interface. It features a large, semi-circular red arc on the left and right sides, composed of many thin white lines. In the center, the word "THANKS" is written in a large, white, italicized sans-serif font. The text is flanked by several red rectangular bars of varying lengths. Below the text, there is a circular, concentric pattern resembling a radar or a stylized eye, with various digital elements and lines scattered around it.

THANKS

