Final Report

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# Individual Contributions Breakdown

I (Andy Duong) did the project and the report by myself.

# Project Description

1. Motivations of the project:

Each era is different, it is pointless to compare the past to the present. However, our present selves are a result of our prior experiences from the past. In today's technological period or Information Age, also known as the Computer Age, Digital Age, Silicon Age, or New Media Age, a vast number of new technologies have been devised and developed to make our lives simpler than ever before. For instance, sending and receiving a letter does not have to take a month because there is an email system that allows us to send and receive electronic correspondence within seconds. A smartphone is a device that combines mobile telephone components and computing function into a single unit that offers internet and multimedia features (video, music, camera, games, YouTube, etc.) with phone features (voice call, video call, and text messaging). A search engine, a software system designed to carry out web searches. If you need any information, you can use search engine which makes the information easier to find. With over 1 billion sites on the world wide web online today, there is a vast amount of information on the Internet. You just simply enter the keywords, and the search engine will systematically seek for suitable websites. These inventions are only a fraction of the biggest technological/modern inventions. And it is clear how incredible they are! Additionally, the calculator is also one of the greatest technological/modern innovations. As a matter of fact, the calculator has an interesting and extensive history.

The beginning history of the calculator was started with the invention of the abacus around 2000-2500 BCE. For nearly four and half millennia, Abacus was the de facto counting device. Until 1617, in Europe, John Napier devised a device known as Napier's Bones. During this period, mechanical calculators began to evolve. As a result of John Napier's inventions and algorithms, other inventors were able to develop the slide rule, an abacus improvement. In 1642, Blaise Pascal created Pascaline, a device that could perform arithmetic operations with two numbers. Pascaline, a device that could do mathematical operations with two integers, was invented by Blaise Pascal in 1642. In 1673, Gottfried Leibniz designed and constructed Leibniz Wheels as an enhancement of Pascaline, following Pascal's innovation. Thomas de Colmar constructed an arithmometer incorporating Leibniz's wheels in 1820. William Seward Burroughs created the Then Grant Mechanical Calculating Machine and the P100 Burroughs Adding Machine between 1877 and 1886. Later in 1887, Dorr. E. Felt created Comptometer. The evolution of mechanical calculators kept going on until 1930. And in the late 1930s, the rise of the electronic calculator started to begin. In 1946, the first general-purpose computer, ENIAC, was constructed. In 1961, ANITA, the world's first electronic desktop calculator, was introduced. Olivetti Programma 101 was released in 1965. After that, the microchip was created, which marked the next major advancement in calculator development. Newer and more advanced calculators were being manufactured during the early 1970s. They later became the pocket and programmable calculators such as the Hewlett Packard HP-35 ‘scientific’ calculator. Heading to the mid-1980s, the Casio fx-7000g was the first graphical calculator to be developed. In 1992, a mobile phone with PDA features and a virtual calculator were created. And it kept going as more advanced products were created until the mid-2000s. By the mid-2000 to present, the rise of internet, computers, and smartphones has made the physical calculators obsolescent.. Numerous websites on the internet provide programmable calculators, each with its unique functionality. Whether conventional or digital, each calculator has its unique application. Some individuals like the physical, while others choose the virtual or digital.

As you know the calculator is a common tool for a wide range of individuals, including students, salesmen, accountants, and other professionals.. It assists you in doing basic mathematical operations such as adding, subtracting, multiplying, and dividing, as well as more complex mathematical operations such as solving equations and calculating matrices. Despite its extensive and interesting history, it has now evolved into a device that is not only portable but also functional and has a wide range of features. And it also has become a well-known and useful tool than ever since it allows us to minimize calculating time and ensures excellent accuracy. According to a number of academics, the excessive use of calculator can have a range of negative effects, including a decline in student’s reasoning and calculating skills. As a result, several schools have prohibited the use of calculators for simple calculations in order to encourage student practice certain math abilities. But still, the development of calculator continues to progress with advanced scientific and technical technology, helping it to add more complex computing functions. Besides, the modern advanced calculators are no longer just used to calculate calculations, but they are also used in many different applications such as calculating body mass in combination with the required daily calorie content, currency or unit conversion, emissions calculations etc.

2. Personas, Scenarios, Use cases (list 1-3 examples):

As I have mentioned above, there are many different kinds of calculators that have different functions. Each kind of calculator is good for a certain task. And each calculator would be used by a different kind of person. Everyone can use a basic calculator to solve simple equations, while math students can use a scientific calculator or a graphing calculator. Printing and financial calculators are for people who work with money, like accountants, salespeople, bank tellers, etc.

As part of my project, I am making a basic calculator app that anyone can install and use. Let's say Kelly works in a dentist's office. She needs to fill out the tax forms so she can get the money she paid in taxes back. She has to write down her last year's monthly income on the forms. She looks for her payroll documents from last year to get the information she needs. After getting, she opens the calculator app on her phone because she knows that any basic calculator can do the math. The calculator shows up and waits for her to prompt. Then, she clicks number buttons to enter her weekly pay. The calculator system takes what she prompts and waits for her to click one of the four basic math operations. She clicks the "X" button, which is used for multiplying. After receiving the option input, the calculator waits for another input. She then prompts the number of weeks in a year. The calculator takes what she types in and then asks her again if she wants to get the result or keep going and make the equation bigger. She can press the "=" button if she wants to get the result. After that, the calculator does the math and shows the result.

3. Prototypes:

The first step is to get the application started. When the system is turned on, the screen comes up and asks for the first number. The first number is typed in by the user. The system checks the conditions after reading the first input. If the first input is valid, the system stores it in a variable. If the first input is invalid, the system goes back to the user and asks them to try again. After the system checks the conditions, it asks for an operation (+, -, X, /, %, or ^). The user chooses one of the operators to use. The system reads the input and checks to see if they are one of the operators. If the input is one of the operators, the system stores it in a variable. If the user enters something that isn't one of the operators, the system goes back and asks the user to try again. After the system has checked the conditions, it asks for the second number. The second number is typed in by the user. The system checks the conditions after reading the second input. If the second input is valid, the system stores it in a variable. If the second input is invalid, the system goes back to the user and asks them to try again. After all the inputs, the system goes to the calculation process. If the operator is +, the first and second numbers are added together, and the result is stored in a variable. If the operator is -, the system subtracts the first number from the second number and stores the result in a variable. If the operator is X, the first and second numbers are multiplied together, and the result is stored in a variable. If the operator is "/," the system divides the first number by the second number, puts the result in a variable. If the operator is %, the system divides the first number by 100 and multiplies it by the second number. It then stores the result in a variable. If the operator is ^, the first number is used as the base and the second number is used as the power. The first number is then multiplied by itself many times based on the power/second number and the result is stored in a variable. The result is then shown by the system. After the result is shown, the user can close the app.

[CALCULATOR FLOWCHART]

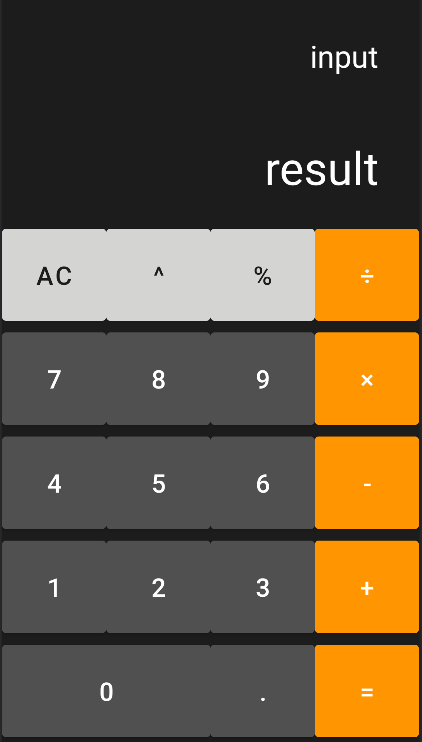
A picture containing diagram

Description automatically generatedDiagram, shape

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4. User Interface:

My User Interface is kind of a graphical user interface where it has 19 buttons and a text view layout. The 19 buttons are separated into several parts. There are six buttons for basic mathematical operations, ten buttons for numbers, one button for inputting a decimal, one button for computing and showing the result, and one button for resetting. The layout of the text view is separated into two portions. The first portion displays the input, while the second section displays the output. I picked a variety of colors for the buttons to provide visual appeal. There is a mixture of black, white, orange, gray, and dark gray in the design. Below is an image of my UI.



[GRAPHICAL USER INTERFACE]

# Evaluation Plan

Evaluation is a never-ending process that looks at everything from early ideas for conceptual models to later, more finished prototypes. I check how my project is going at every step, from the first to the last.

I believe using Heuristic Evaluation method is more applicable than the other methods because it has the Nielsen’s 10 Heuristics for UI design and is also based on heuristic distilled from an empirical analysis of 249 usability problems and these heuristics have been revised for current technology. Moreover, it is inexpensive and quick compared to asking the users. Each evaluation period only takes 1-2 hours. I might not be an expert, but I have a review guided by a set of heuristics. When I first designed the app, I had to make a list of important elements, including the type of calculator I wanted to create, the type of user, the standards, the ease of use, the number of buttons and functions, the app's visibility, layouts, aesthetic and minimalist design, and the app's compatibility with the real world. After listing and selecting, I choose to make a basic digital calculator. Like the word "basic," the app's primary purpose is to be accessible to all users. As stated previously, the interface contains 19 buttons and a text view layout. The design is simple with pleasing color scheme. Texts on buttons are universally understood. It uses the white space appropriately. For the content, there are two screen portions with minimal text. With 19 buttons, the information on them is presented clearly and with text. For the navigation, the buttons are easy to identify. They are limited number of buttons and important ones. For efficiency and functionality, it builds quickly and successfully in 4 seconds. No errors at the moment. Each button has a specific function. The system supports a reset button.

# Comparison with Similar Products

There are several calculator applications available for smartphones, tablets, laptops, and wearables. Each application has a unique appearance and a variety of features. For the basic calculator app, all of the designs look mostly the same because there are only certain numbers and basic mathematic operations that are required. There are variances in color schemes and layouts.

Comparing my calculator app to the calculator app on the iPhone OS reveals that my app's colors and layout are the same. But the difference is the shapes of the buttons. The functions are same in vertical orientation mode. In horizontal orientation mode, the calculator app on iPhone differs drastically from mine. A simple rotation is all that is needed, and it automatically transforms from the basic calculator to scientific calculator. It supports much more mathematical operations than only the fundamental ones. It includes trigonometric operations, the rand operation, the square root operation, the pi operation, and more.

A calculator with many buttons

Description automatically generated with low confidence

[SCIENTIFIC CALCULATOR IN HORIZONTAL MODE – IPHONE OS]

Comparing my calculator app to the calculator applications on Android OS, I feel that my app's colors and layout are different from those on Android OS, as each Android OS version has a unique GUI, design, colors, etc. For the functionality, however, all vertically oriented basic calculators are essentially identical. Similar to the calculator app on iPhone OS in horizontal orientation mode, the ones on Android OS functions the same as iPhone OS as it goes from a simple calculator to a scientific calculator by just turning it around. It supports much more mathematical operations than simply the fundamental ones. The operations may exceed or match those of iPhone OS.

A hand holding a tablet

Description automatically generated with low confidence

[SCIENTIFIC CALCULATOR IN HORIZONTAL MODE – ANDROID OS]

# Possible Improvements if given more time

The possible improvements I would like to make for my basic calculator app better are adding more mathematical functions in horizontal mode, like the ones on the iPhone OS. I would also like to add more features like voice recognition, a history of results, and the ability to copy and paste. With more mathematical functions, the calculator app would be handier and more beneficial in the event that the user forgets or loses her/his physical calculator. For the features, voice recognition would be a useful function for the user, as it offers an alternative to typing on a keyboard. It boosts the productivity of many professionals and saves them more time since capturing speech is faster than typing. History of results feature helps look backing the previous results. The ability to copy and paste allows you to move numbers from one spot to another without having to retype it.

# Alternative Designs

Alternative design refers to a buffer design that meets or surpasses the intent of the screening criteria, although not being clearly defined in the standards. There are many alternative designs for calculator that I have seen on website.

![Graphical user interface

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFuZHkgRHVvbmcAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMwOAAAkpIAAgAAAAMwOAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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RRSAKKKKACiiigAooooA//2Q==)

[SOME INSPRIRATIONAL CALCULATOR UI DESIGN]

# Reasons why school should and should not allow calculator

As I have mentioned earlier, calculator is a device which plays an important role in every student's life. This is this handheld device used by the students. Along with the era of technology is booming, and innovations and modernity have changed many aspects of life. Whether the students are allowed to use calculator from such a young age is a major topic of dispute. The outcome of the debate has both negative and positive sides. Should calculator be allowed in math classes? Some may say no, while others may say yes.

The advantages of using calculator are saving time, solving math problems with high accuracy, and delivering exceptional results. Calculator helps break problems down into simpler steps and allows student to devote more time in understanding math problems. It also assists students in solving complex problems efficiently and quickly.

The disadvantages of using calculator are loss of thinking ability and basic calculation skills, making people become dependent and lazy to think. Mathematics is considered as the most important subject because of its application in life. It can be seen that, in daily life, most of us still need to calculate in jobs such as buying and selling, negotiating, investing, etc. Therefore, if we are too dependent on calculator, we may slowly lose our ability to think and calculate.

To resolve this rebate, we can follow these solutions such as giving two formats of problem, one format that allows the use of calculator and one format that prohibits the use of calculator. Thus, both ensuring the fairness and helping students to have thinking and calculating skills to solve problems. Or when students have to calculate the whole thing mentally, only in case of difficult math problem, teacher can allow students to use the calculators. After class, teacher will collect them back.

There is no doubt that using calculator will help solve many problems, especially in calculating and working for each person. However, using calculator too much in school has made many young students become more and more dependent on them. Therefore, we should consider an appropriate time to teach them how to use calculator in math. Before letting them use the calculator to solve problems, we need to make sure that they know how to do all the basics without the calculator. Of course, in each issue, there are controversial opinions. So is the question of whether the young students should use calculators. Although each idea has its own convincing arguments, for the sake of the young students’ long-term benefit, we think we need to avoid exposing them to calculator too early and leading to the abuse of tools that affect the development of their skills.

# Discussion and Future Work

My fresh experience with Android Studio, which causes me to be unsure and confused about many aspects of its use, presents a difficulty for me in development. The challenges are like building the UI with Layout Editor, setting the Constraint Layout, inserting some items from the Palette tab, making other activity java file and layout xml file, hard coding, dealing with design errors, having some knowledge of Android Studio, etc. Self-taught programming has never been easy. It requires both optimism and relentless striving. There were moments when I felt that learning was too hard since there is too much information to learn and practice. But I did not give up. I started to watch some YouTube videos to help me learn more about Android Studio. There are many videos and websites available online for people who want to learn programming by themselves. The best way to learn quickly is to watch and practice. Theory along with practice is what cannot be truer when learning programming courses.

As noted previously, one of the possible future works for design improvement I would want to make to my calculator app is the addition of more mathematical operations in horizontal mode, similar to those on the iPhone OS. I would also want to see voice recognition, a results history, and the ability to copy, and paste included. In the case that the user forgets or loses her/his calculator, the calculator app would be more convenient and useful if it had more mathematical functions. Voice recognition would be an advantageous feature for the user, as it provides an alternative to typing on a computer. It increases the efficiency of many professions and saves them time, as speech recognition is faster than typing. The history of results function allows users to examine the prior results. Copying and pasting allows you to transfer numbers from one location to another without having to retype them.

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