

# Python Programming For Beginners

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```
operation == "MIRROR_X":  
    mirror_mod.use_x = True  
    mirror_mod.use_y = False  
    mirror_mod.use_z = False  
    operation == "MIRROR_Y":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = True  
    mirror_mod.use_z = False  
    operation == "MIRROR_Z":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = False  
    mirror_mod.use_z = True
```

```
#selection at the end -add  
mirror_ob.select= 1  
modifier_ob.select=1  
context.scene.objects.active  
("Selected" + str(modifier_ob.name))  
mirror_ob.select = 0  
= bpy.context.selected_object  
data.objects[one.name].select  
print("please select exactly one mirror")
```

--- OPERATOR CLASSES ---

```
types.Operator):  
    "X mirror to the selected  
    object.mirror_mirror_x"  
    "mirror X"
```

```
context):  
    "object is not a mirror"
```

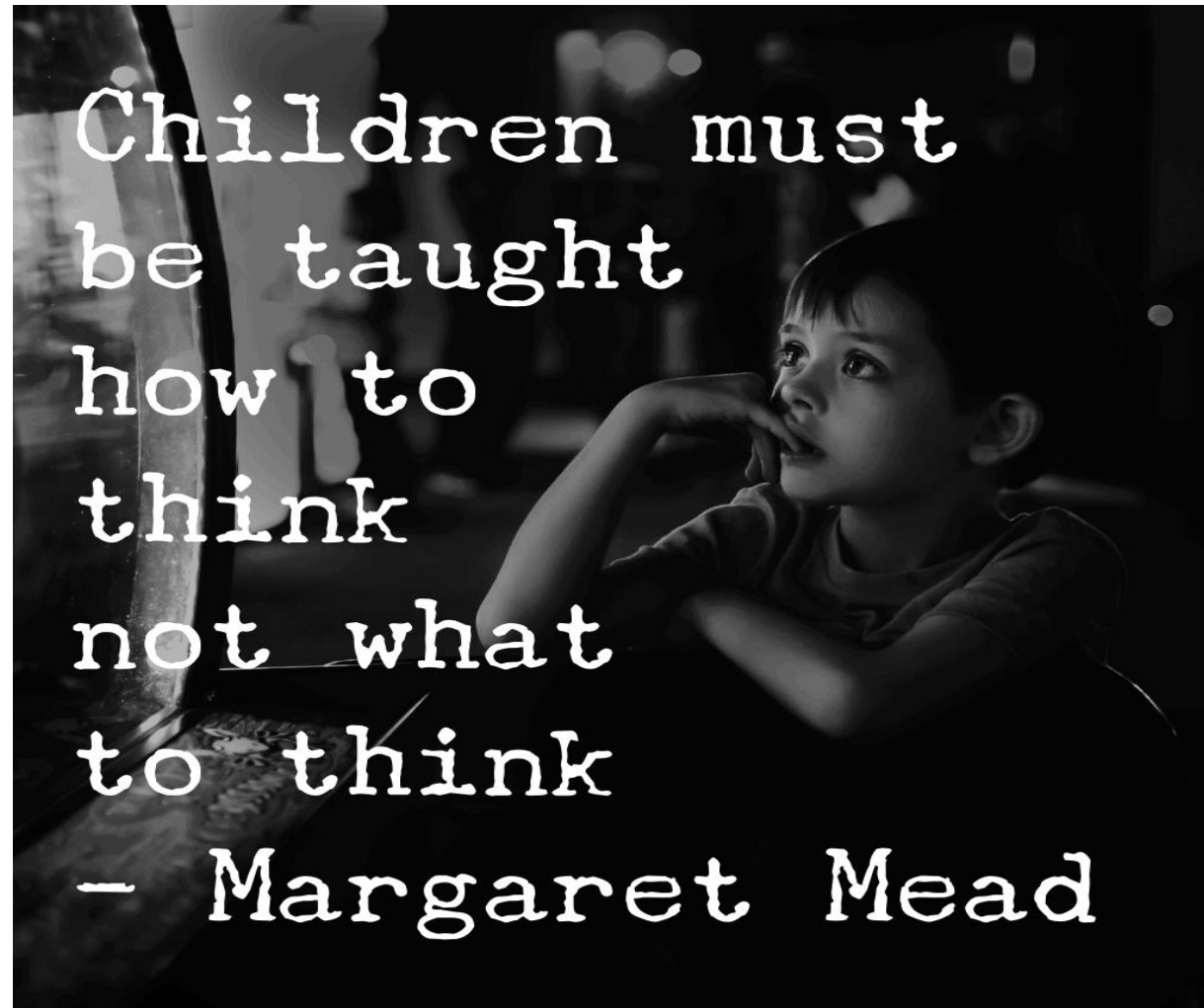
# Reasons why every child should learn to code

- Programming helps children learn to problem-solve

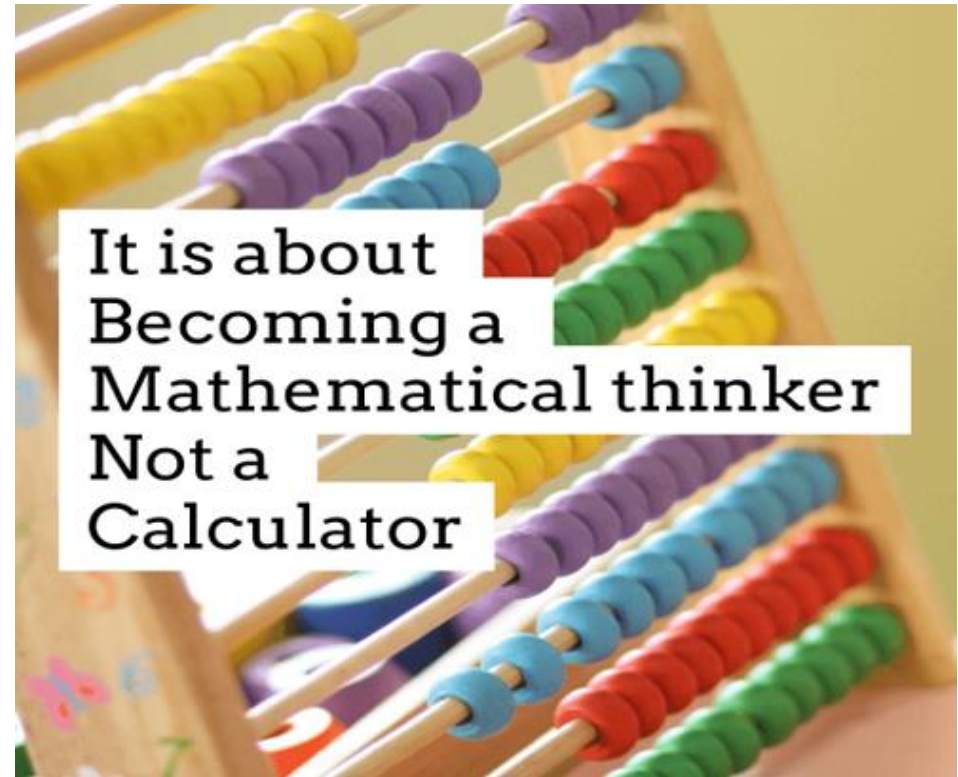




- Coding teaches children how to think



Computer  
programming is the  
future



# Coding is learning while having fun

If you want to give your child something enjoyable to do which will also be educational and help them to learn, learning to code is the perfect gift.

You can read about the reasons why coding is important, but one of the main ones is to give them a challenge while having fun!

# What is coding

- Put simply, Coding is the method of communicating with a computer. It is using a language that a computer understands to give a computer instructions in order to perform specific functions. Coding allows us to create things such as computer software, websites, apps and video games.



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- **Quote:** “All of my friends who have younger siblings who are going to college or high school - my number one piece of advice is: You should learn how to program.”

- **Coding Fact:** Mark Zuckerberg was not only a talented coder as a kid was but an excellent fencer.



# Tanmay Bakshi

- **Age:** 15
- **Quote:** “You have to be passionate about programming before you can program.”
- **Coding Fact:** Tanmay Bakshi has given a TedTalk on his love for programming.

Another young and famous programmer, Tanmay Bakshi, caught the world's attention and for a good reason. Not only is Tanmay a software developer, but he is an author, speaker, Youtuber, and the world's youngest [IBM](#) Watson developer. The young talent began his programming career at the age of five,

<https://interestingengineering.com/7-famous-computer-programmers-who-started-programming-at-an-early-age>





- The Filipino-American teenager began her coding journey at the age of 10. This love for coding initially started when she quickly discovered how much she loved math

## 6. Isabel Sieh



*Source: Everipedia*

**Age:** 14

**Quote:** "When you're in a community, it's easier to learn."

**Coding Fact:** Isabel Sieh is the Founder of "Girls Will Code."



- **Age:** 9
- **Quote:** “I want to be Bill Gates.”
- **Coding Fact:** Muhammad Hamza Shahzad is currently the youngest coder in the world.

The nine year-old British Pakistani from Birmingham, UK, Muhammad Hamza Shahzad discovered his passion at an early age, becoming one of the youngest accomplished programmers in the world. Starting at the age of six,





# Class : **Description**

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An introduction to computer programming in a high-level programming language.



fundamentals of programming and algorithm design.



Basic coding structures such as sequence, selection, and iteration will be covered. There will be an emphasis on practical exercises to develop programming experience and confidence.

# Content for the classes (Based on the speed of students)

- Problem Solving & Programs
- Introduction to flow charts & Algorithms
- Setting up the environment for python programming
- Variables
- Built-in functions
- Inputs
- Conditions
- Loops
- String
- Reading and writing files

## Problem Solving & Programs

- Values, Types and Variables
- Assignment Statements
- Arithmetic Operators
- Program Comments
- Order of Operations
- String Operations

- <https://funtech.co.uk/latest/13-reasons-why-every-parent-should-encourage-their-child-to-learn-coding-skills>