

# Warm up:

Hi my name is Diksha , I am from Rajasthan India., my hobbies are Playing tennis and swimming.... And I'm going to be your coding teacher for this class today.

What is your good name?

Which grade are you in?

Where are you from, which country?

<Reply: I know xyz from the same country....school...another student...>

That's really great

May I know about your hobbies?

<Student reply>

Awesome....

Thank you so much for giving your introduction

Do you have any idea what we are going to do in this class????

<Student – No idea>

Before starting

LETS PLAY A GAME Together...

Are you ready for that...

<Yes>

Great..

So in this game , you have to follow what Diksha Says....For example If Diksha says stand up , so you have to act accordingly...

Ok..

Diksha says close your eyes..

Diksha Says raise your left hand

Diksha says Clap...

Very well done..Keep this spirit up..

:You know In today's class we will be learning about coding , also about the platform that we are going to use for creating the project, we will be learning about some important concepts of coding after which we will have a small quiz based on what we learnt in the class, after which I will be having a word with your parents regarding some things related to today's class and also about further more details related to the importance of coding etc.

Before we dive deep into it , Please let me know if you Have ever heard about Coding Before ? Do you know what coding is?

<Student answers>

If you remember the previous fun activity that we just played , you were able to perform the actions because there was a common language to communicate that's is English in our case because we both understand English..

Similarly if you want to convey your message to a computer , you should communicate with its language. And coding is the study of that language in which we can communicate with a computer.

I hope that Is clear to you now?

<yes>

As you know we humans speak many languages just like that we have different programming languages with which we can communicate with a computer...

In this session , we are going to explore about a famous computer language called “Python”, its very easy to learn and it comes with many predefines libraries and functionalities which makes python a perfect choice...

And we will create one interesting project using it ..  
Are you ready to learn..  
So lets get started ....

We need an environment/platform, either online or offline, to run the code. There are many platforms available to run the Python programming language code.

We will begin with an online platform that runs on the browser while you are connected to the internet, called “Google Colaboratory” developed by Google.

In short, we will call it Colab. It is easy to use and comes with many pre-installed features, which we will explore as we learn. Let’s first understand Colab

Once you open the link, you will see a pop-up with a list of colab notebooks.

What do you think a notebook is?

In general, the notebooks we have been using in schools are to take notes, right?

But, colab notebooks are interactive digital documents which can have code, text, media files, etc all together at one place, that can be shared easily with anyone.

Now let’s see how a notebook looks.

- A Cell in a notebook is a container where you can write your code or text.

One cell can be of either code or text, not for both at the same time

- Code cells are where we write the Python code
  - Running a code cell:
    - Use the play button which shows up on the top left of the code cell.

A text cell is where you can add simple text using markdown syntax. (In the image above, 2 and 5 are text cells)

To add new cells we can use the +CODE and +TEXT buttons that appear when we hover in between any two cells

Now that we are little familiar with notebooks, let's create our own colab notebooks and get started with Python programming! Creating a NEW Colab notebook: ● Go to "File" in the top left corner of the notebook. ● Click on "New notebook"

Today we are going to create a virtual dice rolling game where computer will generate a random number between 1 to 6 when user rolls the dice..

To achieve this , we will use an important library which contains a collection of random events,, the module name is random...

We will use this to generate a random integer between 1 and 6...

We should ask user to enter an input then we accordingly we will repeat the process...

To repeat something , we make use of loops...

In this program , lets use a while loop which repeats the values till a specific condition is satisfied..

In a while loop , we will write the condition if the response is either yes or y in lower case , then we should print some messages like : "rolling the dices"

Then we will generate a number and show that random number using print function....

At this point , I welcome you to add the code for the 2<sup>nd</sup> dice ,

Do you want to give it a try ...

I will be guiding you through it...

Are you ready ...

Please share your screen then.....

```
#importing module for random number generation
import random
#to loop the rolling through user input
roll_again = "yes"

#loop
while roll_again == "yes" or roll_again == "y":
    print("Rolling The Dices...")
    print("The Values are :")

    #generating and printing 1st random integer from 1 to 6
    dice1=random.randint(1,6)
    print(dice1)

    #generating and printing 2nd random integer from 1 to 6
    dice2=random.randint(1,6)
    print(dice2)
    print("Total:- ",dice1+dice2)

    #asking user to roll the dice again. Any input other than yes or y will terminate the loop
    roll_again = input("Roll the Dices Again?").lower()
```

<Guide the student and complete the student activity>

## Project Completion..

Congratulations on completing your first project.

Did you like the project you made?

Great

Do you have any doubts about the project ?

You know

You completed the project in just 20 minutes, not everyone can do that. So Very well done.

What if we share this achievement of yours with your parents??

Is anybody around you..??

Please request them to join us

. Ask the student to call the parents on the screen.

Hello ma'am/sir, How are you today?

My name is \*Diksha\* I am from Brightchamps and I was the coding educator for \*<Bhupi>\* for this session.

Hey <bhupi>\* Can you please show the project to your parents? They will be very proud seeing your new achievement

Mam/sir I must say <bhupi> is good into grasping the things very quickly and his/her work is quite appreciating.

May I know How did you come across Brightchamps?

What are you expecting out of this course?

<Parent ans>

Sounds good....

Let me tell you that you have taken a right step forward..

It's great to see you being so aware of the present need of coding in learning. As We all are surrounded by technology/coding everywhere.

Learning Coding will definitely make <Bhupi> to stand way ahead of his/her peers. Because his/her logical thinking , problem solving approach will improve day by day and this is the right age to get started with coding.

We give him/her hands on experience as you must have seen in today's class... and they are going to drive the classes which makes them a good leader..

Mam/Sir,

if you have any questions regarding BrightChamps, our courses, curriculum, what kind of technologies we teach,

Also if you want to know about the enrollment process and fees structure as well, I can call an academic counsellor on the screen if you permit????

.

Shall I invite them here?

<Introduction about the parent>

Hi (Rahul) Thank you for joining us

. We have (Mrs .Anju) with us today who is the parent of Bhupi ,,,

Let me tell you that Bhupi is currently studying in (8th GRADE).

And We have just completed the (A dice rolling game) on (Google colab

platform using python language.) .

and it was a great class, I am happy to let you know **Bhupi** is a smart kid and completed the activity really quickly and he/she has good understanding of the subject matter.... **Mrs Anju** is keen to know more about our program and fee structure. I request you to kindly guide him/her with the enrolment process with us.

## (Introduce AC to the parent >

**Mrs. Anju**, Let me introduce you to **(Mr.Rahul)**, he is a Senior Academic Counsellor with us who will guide you further giving the enrolment details and ensuring all your concerns are taken care so that you can decide accordingly.

I thank you for giving your valuable time, ,

Also I assure you to have the best learning experience and

I am looking forward to see **Bhupi** in my upcoming classes so that we can continue this beautiful journey of learning together.....

I will take your leave now and over to you **Rahul**

Bye Take care