

SESSION - 1 INTRODUCTION TO PYTHON

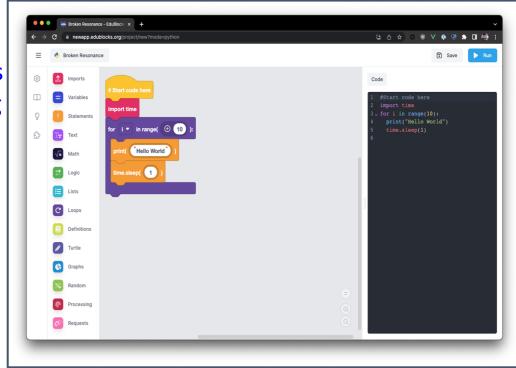
Learning Outcomes:

- Remember: The students will list different types of blocks being learnt in the session.
- Understand: They will be introduced to the Python Programming Language
 - They will understand the use of Print command.
 - They will also understand different data types.
- Apply: They will learn to apply and check the execution of the Print command.
- Analyze: They will check their understanding by developing a code.
- Create: They will create the code in EduBlocks

Introduction to EDUBLOCKS



EduBlocks is a visual block-based programming tool that helps teachers to introduce text-based programming languages, like Python, to children at an earlier age via a drag and drop programming experience

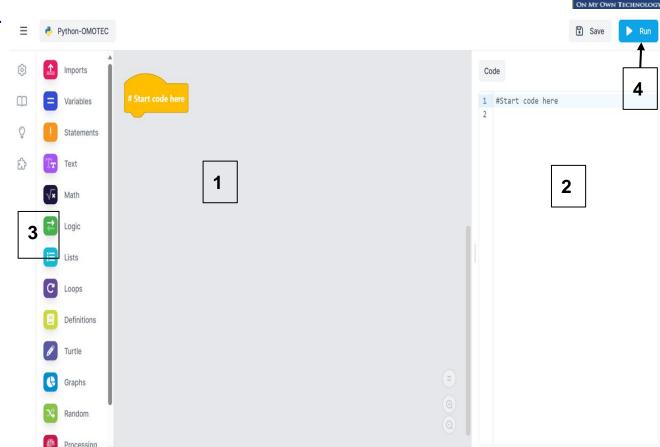


The Interface

O M O T E C ON MY OWN TECHNOLOGY

About the Interface:

- 1- Script Area We write the code here .
- 2- Code in the syntax format will be displayed here.
- 3 Block Area We can select and drag the required blocks from this area
- 4- Click on the RUN Button to execute the written code





Why Learn On EduBlocks?

EduBlocks is the easiest way to make the transition from blocks to text, here's why:

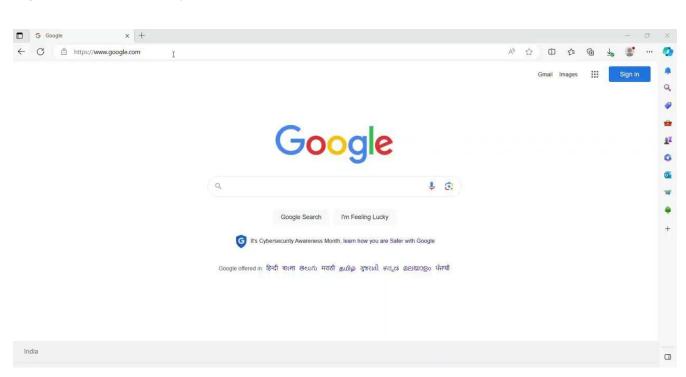
- ☐ **Text on the blocks**: EduBlocks displays the Python text on the block so you can see exactly what you're coding.
- Python view: The main part of EduBlocks is the visual block editor but once you've completed your block code, you can switch straight to a Python editor.
- ☐ EduBlocks has many different <u>"modes"</u> that can be used with external hardware or just in the browser. Modes include:
- > Python 3
- > BBC micro:bit
- Raspberry Pi
- CircuitPython

How To Access Edublocks?



- 1. Type: https://edublocks.org/ in the address bar of your Browser.
- 2. Click on Start Coding
- 3. Select Python3
- 4. Start Coding

Reference Video:



Print() Function



- The print() function prints the specified message to the screen, or other standard output device.
- The message can be a string, or any other object, the object will be converted into a string before written to the screen.

print(" Hello World ")



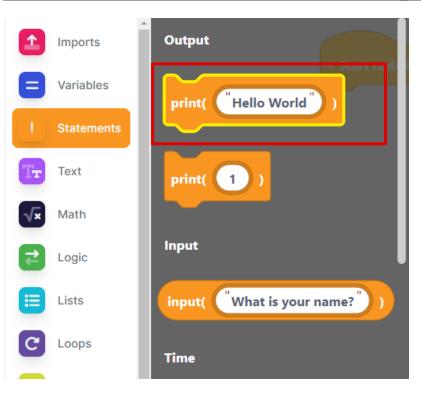


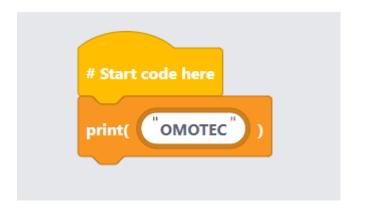
TASK 01:-

</></r> VALUE A PROGRAM TO PRINT YOUR NAME





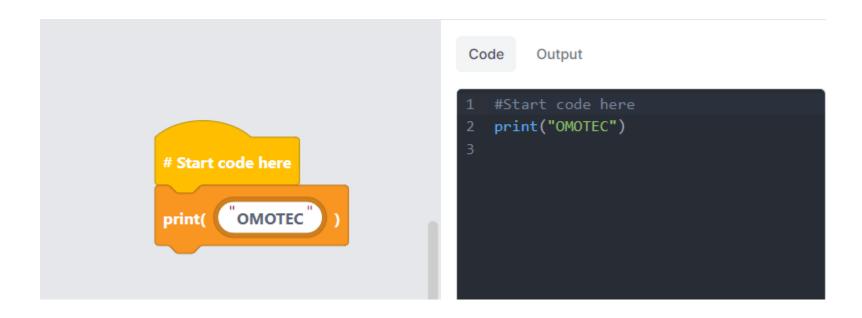




Connect print "Hello World" block and change the text to "your name"



Program











TASK 02:-

</>WRITE A PROGRAM TO PRINT YOUR NAME AND MESSAGE WITH A DELAY FUNCTION

Delay Functions



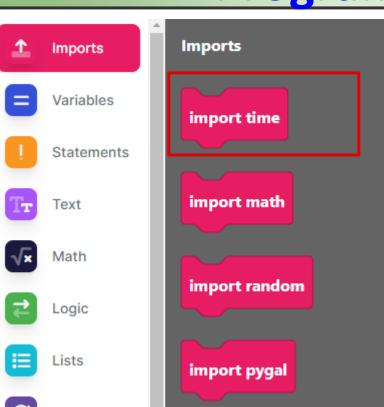
- ➤ import time:- When we say import time, we're telling the computer to use a special tool called "time" that helps us keep track of time. Just like you use a clock to know when it's time for different activities, the computer uses the "time" tool to know how much time has passed.
- ➤ <u>time.sleep():-</u>This function is like telling the robot to take a little break or pause for a while. You can tell the robot to pause for a specific amount of time. For example, you can say, "Robot, pause for 5 seconds." The robot will wait for 5 seconds before doing the next thing you tell it to do.

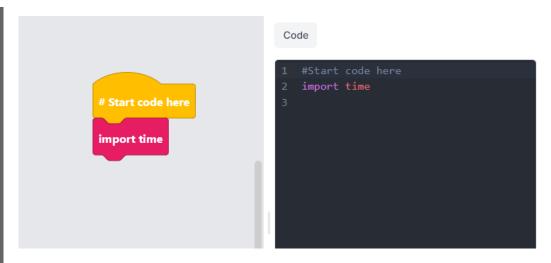








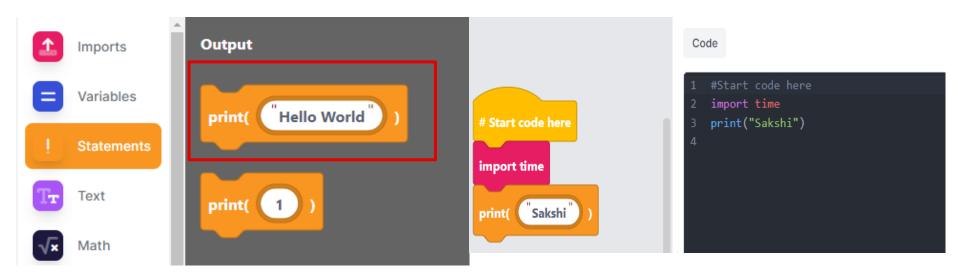




Add an time library from imports blocks



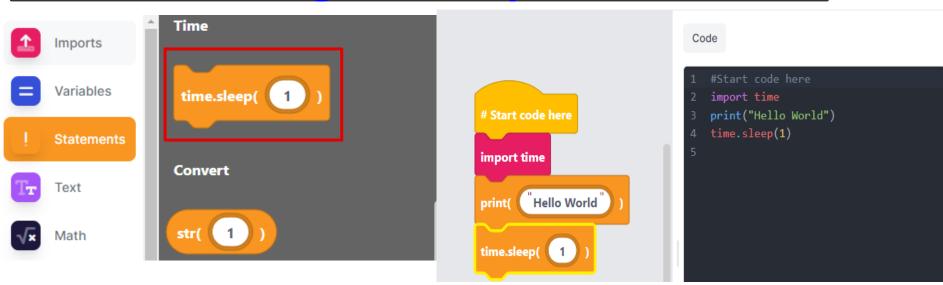
Program Step 2:-



Connect print "Hello World" block and change the text to "your name"



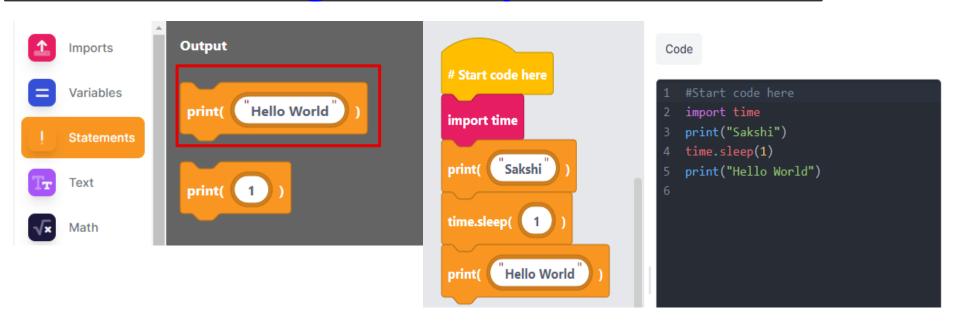
Program Step 3:-



Connect print "time.sleep()" block for delay 1 sec



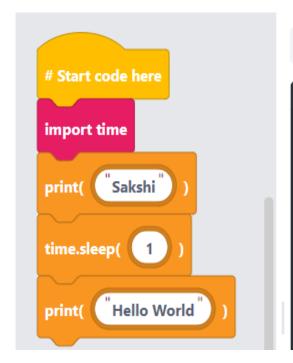
Program Step 4:-



Connect print "Hello World" block and change the text to "message"



Program

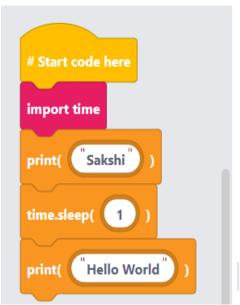


Code

```
#Start code here
import time
print("Sakshi")
time.sleep(1)
print("Hello World")
```



Output



Code

```
1 #Start code here
2 import time
3 print("Sakshi")
4 time.sleep(1)
5 print("Hello World")
6
```

Powered by / trinket
Sakshi
Hello World



ACTIVITY SHEETS

Question:1

What will the output be from the following code? print(Hello world!)

- A. Hello world!
- B. Syntax error
- C. hello
- D. print Hello world



Question:2

Print statement is



- A. Outputs the message on screen
- B. Gets the data from user
- C. A decision
- D. None of the above



Which function is used to Print the data at run time?



```
print(" Hello World ")
```

input(" What is your name?")





Question:4

What is the function name to give a delay in the code?



- B. Gets the data from user
- C. time.sleep
- D. None of the above



Question:5

What is the name to the library to give a delay in the code?



- B. import time
- C. time.sleep
- D. import graph





Homework

</>Write a program in Python to display your name, age and school name