

SESSION - 7 FOR LOOP



Learning Outcomes:

- Remember: The students will list different types of blocks being learnt in the session.
- **Understand**: They will focus on understanding the use and application of FOR Loop.
- Apply: They will apply FOR Loop to work on different programs.
- Analyze: They will check their understanding by developing a code.
- **Create**: They will create the code in EduBlocks.

FOR LOOP



- A for loop is used for iterating over a sequence (that is either a list, a tuple, a dictionary, a set, or a string).
- This is less like the for keyword in other programming languages, and works more like an iterator method as found in other object-orientated programming languages.
- With the for loop we can execute a set of statements, once for each item in a list, tuple, set etc.
- Example:for x in range(6): print(x)



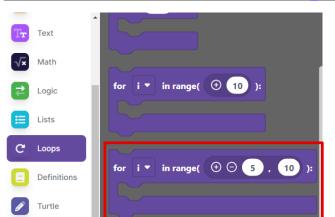
Apply & Create

TASK 01:-

</> WRITE A PROGRAM TO PRINT THE HELLO WORLD 20 TIMES USING FOR LOOP







Get a For Loop and set the range to 0,20

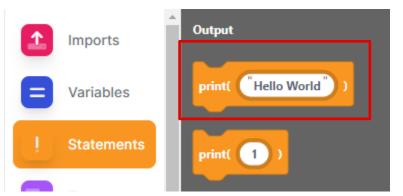
```
# Start code here

for i ▼ in range( ⊕ ⊕ 0 , 20 ):
```

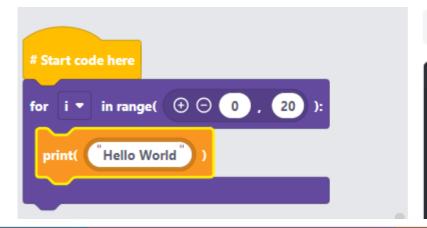
```
1 #Start code here
2 v for i in range(0, 20):
3  pass
4
```







Get print "Hello World" Block to print the name multiple times



Code

```
1 #Start code here
2 v for i in range(0, 20):
3 print("Hello World")
4
```





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Hello World



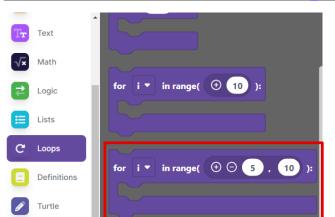
Apply & Create

TASK 02:-

</>WRITE A PROGRAM TO PRINT HELLO WORLD ALONG WITH THE INDEX 20 TIMES







Get a For Loop and set the range to 0,20

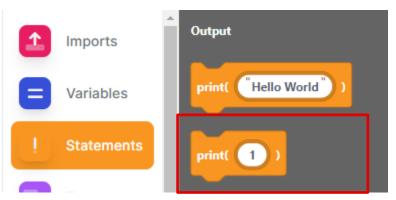
```
# Start code here

for i ▼ in range( ⊕ ⊕ 0 , 20 ):
```

```
1 #Start code here
2 v for i in range(0, 20):
3  pass
4
```







Get print "Hello World" Block to print the name multiple times

Code

```
# Start code here

for i ▼ in range( ⊕ ⊙ 0 , 20 ):

print( i,"HELLO" )
```

```
1 #Start code here
2 v for i in range(0, 20):
3 print(i,"HELLO")
4
```





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- 0 HELLO
- 1 HELLO
- 2 HELLO
- 3 HELLO
- 4 HELLO
- 5 HELLO
- 6 HELLO
- 7 HELLO
- 8 HELLO
- 9 HELLO
- 10 HELLO
- 11 HELLO
- 12 HELLO
- 13 HELLO
- 14 HELLO
- 15 HELLO
- 16 HELLO
- 17 HELLO
- 18 HELLO
- 19 HELLO



ACTIVITY SHEETS

Question 1:

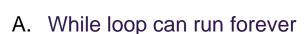
What does a for loop do?



- A. Iterates through a range/sequence
- B. Repeats the code for forever
- C. Repeats the code for limited time
- D. check the condition

Question 2:

What is the difference between while loop and for loop?



- B. For loop can run forever
- C. while loop can iterates through a list
- D. For loop can compare two values





Question 3:

Which of the following statements is correct?

- A. for x in range x = 20:
- B. for x in range (0,20):
- C. for x in range (0,20)
- D. for x in range("0,20"):

Question 4:

What is the output of the following code?

for x in range(0,1): print (x)



B. 0

C. 1

D. 01



Question 5:

What is the meaning of range(0,20) in codefor x in range(0,20):

- A. Iteration range of for loop
- B. index
- C. range for it condition
- D. variable





Homework

- Make a calculator that can do 10 calculations using for loop
- Use while loop and for loop in a single program