



SESSION - 11

MEMORY GAME



Learning Outcomes:

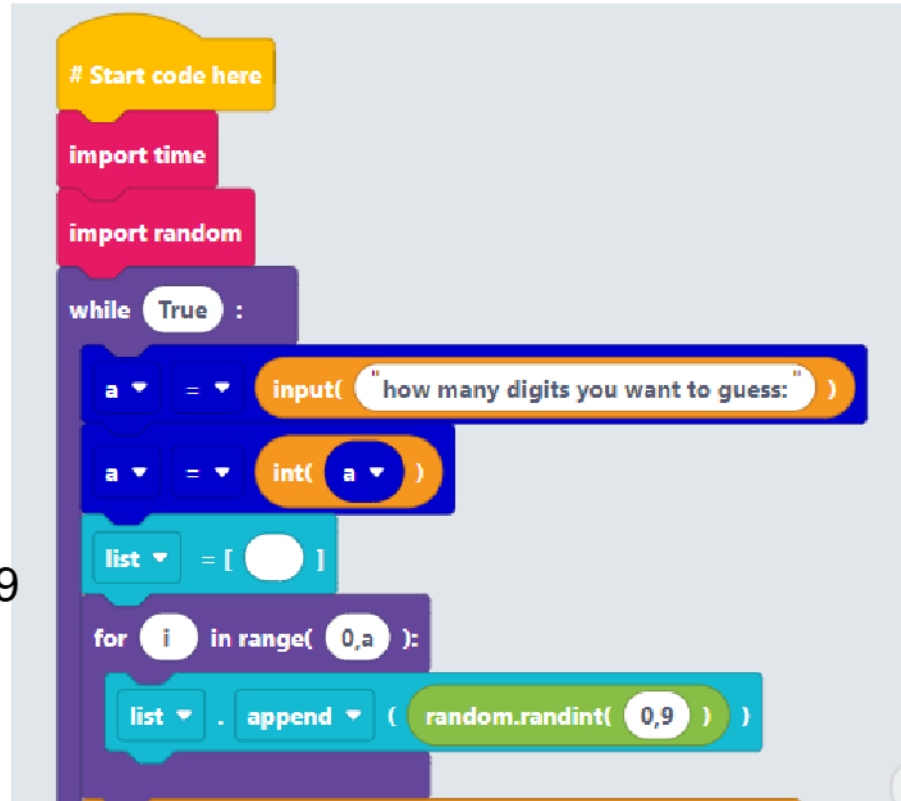
- **Remember:** The students will recall the concepts learnt .
- **Understand:** They will focus on understanding the logics to build the game “Memory Game”
- **Apply:** They will learn to apply the concepts of IF-ELSE , import libraries, create user-inputs, create list , using loops .
- **Analyze:** They will check their understanding by developing a code .
- **Create:** They will create the code in EduBlocks

TASK 01:-

**</> WRITE A CODE TO CREATE A MEMORY
GAME**

Program

- Import turtle library
- set it to turtle
- Take a while loop
- create the variable a and ask the user how many digits you want to guess
- Create the empty list
- Take a for loop in range of 0, a
- use the list method append to generate random numbers from 0-9



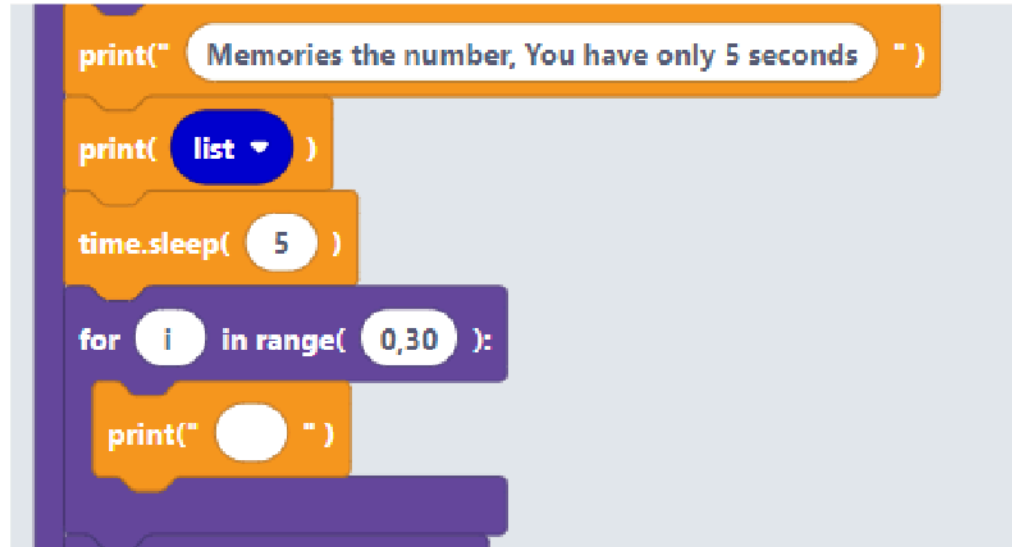
```

# Start code here
import time
import random

while True :
    a = input( "how many digits you want to guess:" )
    a = int( a )
    list = [ ]
    for i in range( 0,a ):
        list . append ( random.randint( 0,9 ) )
    
```

Program

- Print “Memories the number you have only 5 sec”
- print the list
- time sleep of 5 sec to memorize
- use for loop in range of 0-30



Program

- Print enter number with the str
- Use the if condition to check the list and if this is it matches then print correct doing well.
- Or else print "wrong the sequence was" and break the loop

```

for i in range( 0,a ):
    print( "enter number " + str( i+1 ) )
    num = int( input( " " ) )
    if num == list2[i] :
        print( " CORRECT, Doing well " )
    else:
        print( " WRONG, The sequence was " )
        break
print( list )
print( " " )

```

Syntax

```

1  #Start code here
2  import time
3  import random
4  v while True:
5      a = input("how many digits you want to guess:")
6      a = int(a)
7      list2 = []
8  v  for i in range(0,a):
9      list2.append(random.randint(0,9))
10     print("Memories the number, You have only 5 seconds")
11     print(list2)
12     time.sleep(5)
13  v  for i in range(0,30):
14      print("")
15  v  for i in range(0,a):
16      print("enter number  " + str(i+1))
17      num = int(input(""))

```

Syntax

```
15_v for i in range(0,a):  
16     print("enter number " + str(i+1))  
17     num = int(input(""))  
18_v     if num == list2[i]:  
19         print("CORRECT, Doing well")  
20_v     else:  
21         print("WORNG, The sequence was")  
22         break  
23     print(list2)  
24     print("")  
25
```


Output

Powered by  **trinket**

how many digits you want to guess: 4

Memories the number, You have only 5 seconds

[7, 2, 5, 6]

enter number 1

7

CORRECT, Doing well

enter number 2

2

CORRECT, Doing well

enter number 3

5

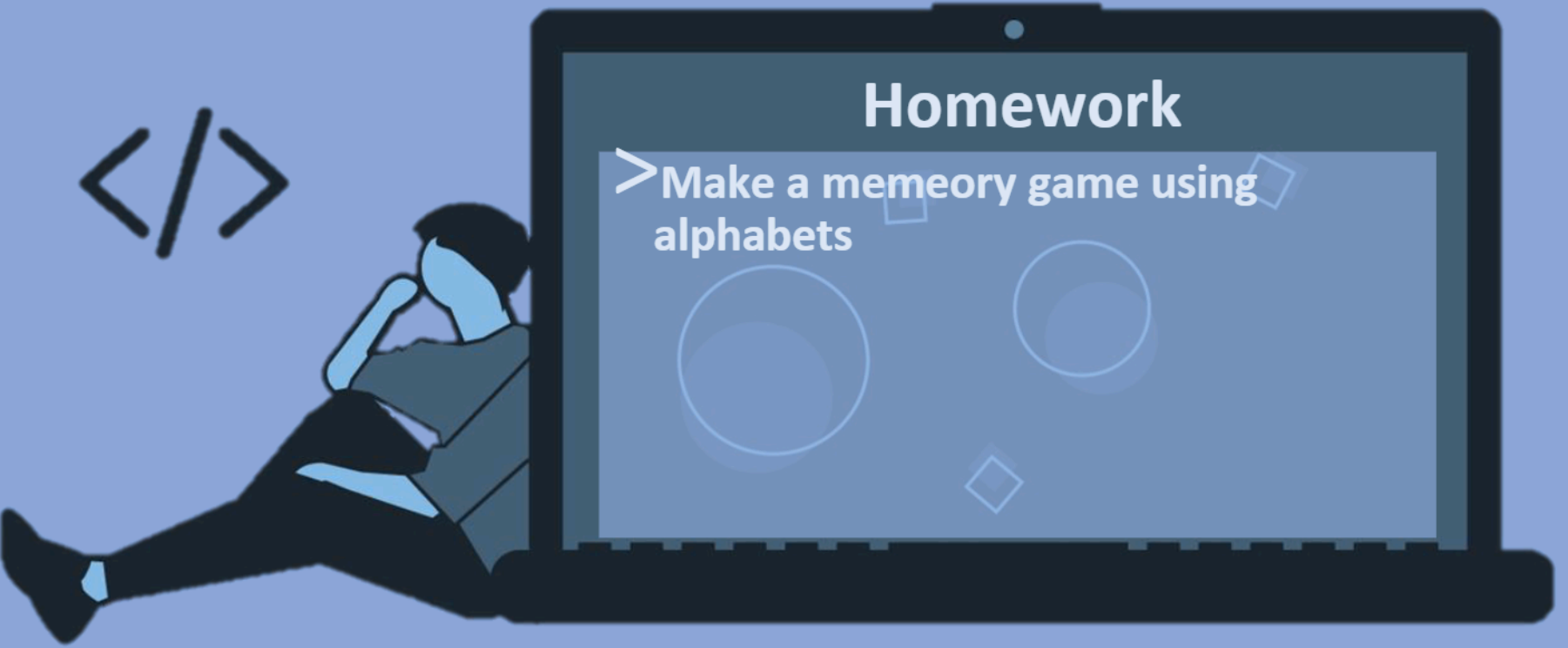
CORRECT, Doing well

enter number 4

6

CORRECT, Doing well

[7, 2, 5, 6]



Homework

> Make a memory game using alphabets