

123 Coding Cards

Basic Coding Set

Primary School Level

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123 Coding Cards

Basic – Card 1: Say Hello!

Scratch

say Hello! for 2 secs



EduBlocks

```
import time
print(' Hello! ')
time.sleep( 2 )
```

```
[Starting]
Hello!
[Program complete]
```

Python

```
import time
print("Hello!")
time.sleep(2)
```

Hello!

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Basic – Card 2: Ask a Question

Scratch

```
ask What is your name? and wait  
say join Hello answer
```



EduBlocks

```
name = input("What is your name?")  
print( "Hello " + name )
```

```
[Starting]  
What is your name? Bill  
Hello Bill  
  
[Program complete]
```

Python

```
name = input("What is your name?")  
print("Hello " + name)
```

```
What is your name? Bill  
Hello Bill
```

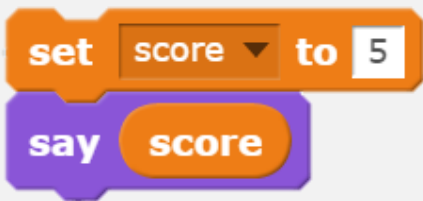
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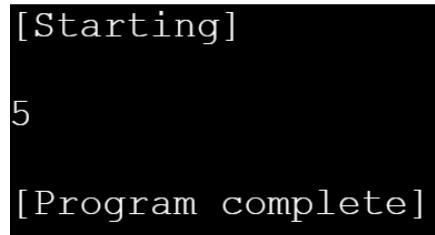
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Basic – Card 3: Variables

Scratch



EduBlocks



Python

```
score = 5
print(score)
```

5

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Basic – Card 4: Character Count

Scratch

```
set characters to length of Hello!  
say characters
```



EduBlocks

```
characters = len("Hello!")  
print( characters )
```

```
[Starting]  
6  
[Program complete]
```

Python

```
characters = len("Hello!")  
print(characters)
```

6

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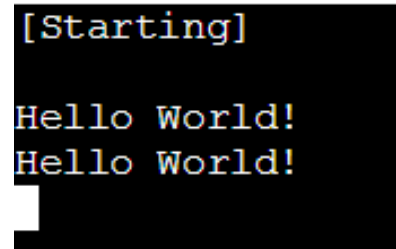
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Basic – Card 5: Forever Loop

1
Scratch



2
EduBlocks



3
Python

```
import time
while True:
    print("Hello World!")
    time.sleep(1)
```

```
Hello World!
Hello World!
```

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Basic – Card 6: Dice

Scratch

say pick random 1 to 6



EduBlocks

```
import random
print( random.randint(1,6) )
```

```
[Starting]
2
[Program complete]
```

Python

```
import random
print(random.randint(1,6))
```

4

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Basic – Card 7: Addition Calculator

Scratch

```
ask First Number and wait
set no1 to answer
ask Second Number and wait
set no2 to answer
say no1 + no2
```



EduBlocks

```
no1 = int(input("First Number "))
no2 = int(input("Second Number "))
print( no1 + no2 )
```

```
[Starting]
First Number 2
Second Number 5
7
[Program complete]
```

Python

```
no1 = int(input("First Number "))
no2 = int(input("Second Number "))
print(no1 + no2)
```

```
First Number 2
Second Number 5
7
```

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Basic – Card 8: Functions

Scratch

```
define my_function
say Hello from a function!

when clicked
my_function
```

Hello from a function!



EduBlocks

```
def my_function ( ):
    print(' Hello from a function ')
my_function ()
```

```
[Starting]
Hello from a function
[Program complete]
```

Python

```
def my_function():
    print("Hello from a function")
my_function()
```

Hello from a function

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Basic – Card 9: 10 seconds timer

1
Scratch

```
repeat 10
  change timer by 1
  wait 1 secs
  say timer
```



2
EduBlocks

```
import time
for i in range( 10 ):
  print( i )
  time.sleep( 1 )
```

```
0
1
2
3
4
5
6
7
8
9
```

3
Python

```
import time
for i in range(10):
  print(i)
  time.sleep(1)
```

```
0
1
2
3
4
5
6
7
8
9
```

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Basic – Card 10: Happy Birthday

Scratch

```
ask What is your name? and wait
repeat (2)
  say Happy Birthday To You
  wait 1 secs
say join Happy Birthday Dear answer
wait 1 secs
say Happy Birthday To You
```



Happy Birthday To You

EduBlocks

```
import time
name = input("What is your name?")
for i in range( 2 ):
    print( " Happy Birthday To You " )
    time.sleep( 1 )
print( "Happy Birthday Dear " + name )
time.sleep( 1 )
print( " Happy Birthday To You " )
```

[Starting]

```
What is your name? Bill
Happy Birthday To You
Happy Birthday To You
Happy Birthday Dear Bill
Happy Birthday To You
```

[Program complete]

Python

```
import time
name = input("What is your name?")
for i in range(2):
    print("Happy Birthday To You")
    time.sleep(1)
print("Happy Birthday Dear " + name)
time.sleep(1)
print("Happy Birthday To you")
```

```
What is your name? Bill
Happy Birthday To You
Happy Birthday To You
Happy Birthday Dear Bill
Happy Birthday To you
```

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