

1 2 3 Coding Cards

Basic Coding Set

Primary School Level

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123 Coding Cards

Basic – Card 1: Say Hello!

1

Scratch

say Hello! for 2 secs



2

EduBlocks

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

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

3

Python

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

Hello!

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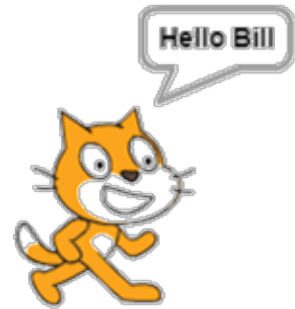
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Basic – Card 2: Ask a Question

1

Scratch

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



2

EduBlocks

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

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

[Program complete]
```

3

Python

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

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

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Basic – Card 3: Variables

1

Scratch

```
set score to 5  
say score
```



2

EduBlocks

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

```
[Starting]  
5  
[Program complete]
```

3

Python

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

5

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Basic – Card 4: Character Count

1

Scratch

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



2

EduBlocks

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

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

3

Python

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

6

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Basic – Card 5: Forever Loop

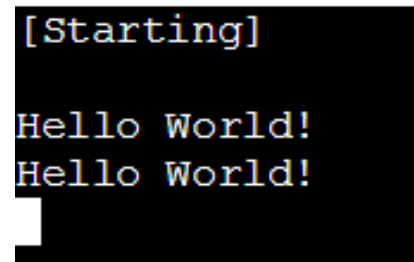
1

Scratch



2

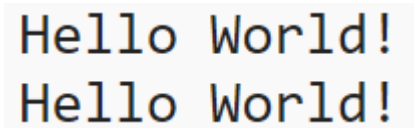
EduBlocks



3

Python

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



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Basic – Card 6: Dice

1

Scratch

say pick random 1 to 6



2

EduBlocks

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

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

3

Python

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

4

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Basic – Card 7: Addition Calculator

1

Scratch

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



2

EduBlocks

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

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

3

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

1

Scratch

```
define my_function
say Hello from a function!

when clicked
my_function
```

Hello from a function!



2

EduBlocks

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

my_function ()
```

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

3

Python

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

my_function()
```

Hello from a function

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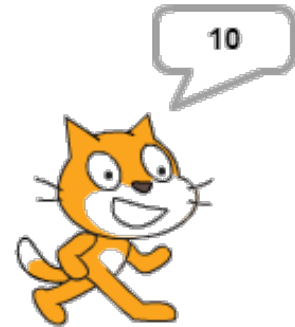
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Basic – Card 9: 10 seconds timer

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	5
1	6
2	7
3	8
4	9

3

Python

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

0	5
1	6
2	7
3	8
4	9

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Basic – Card 10: Happy Birthday

1

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
```



2

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]
```

3

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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