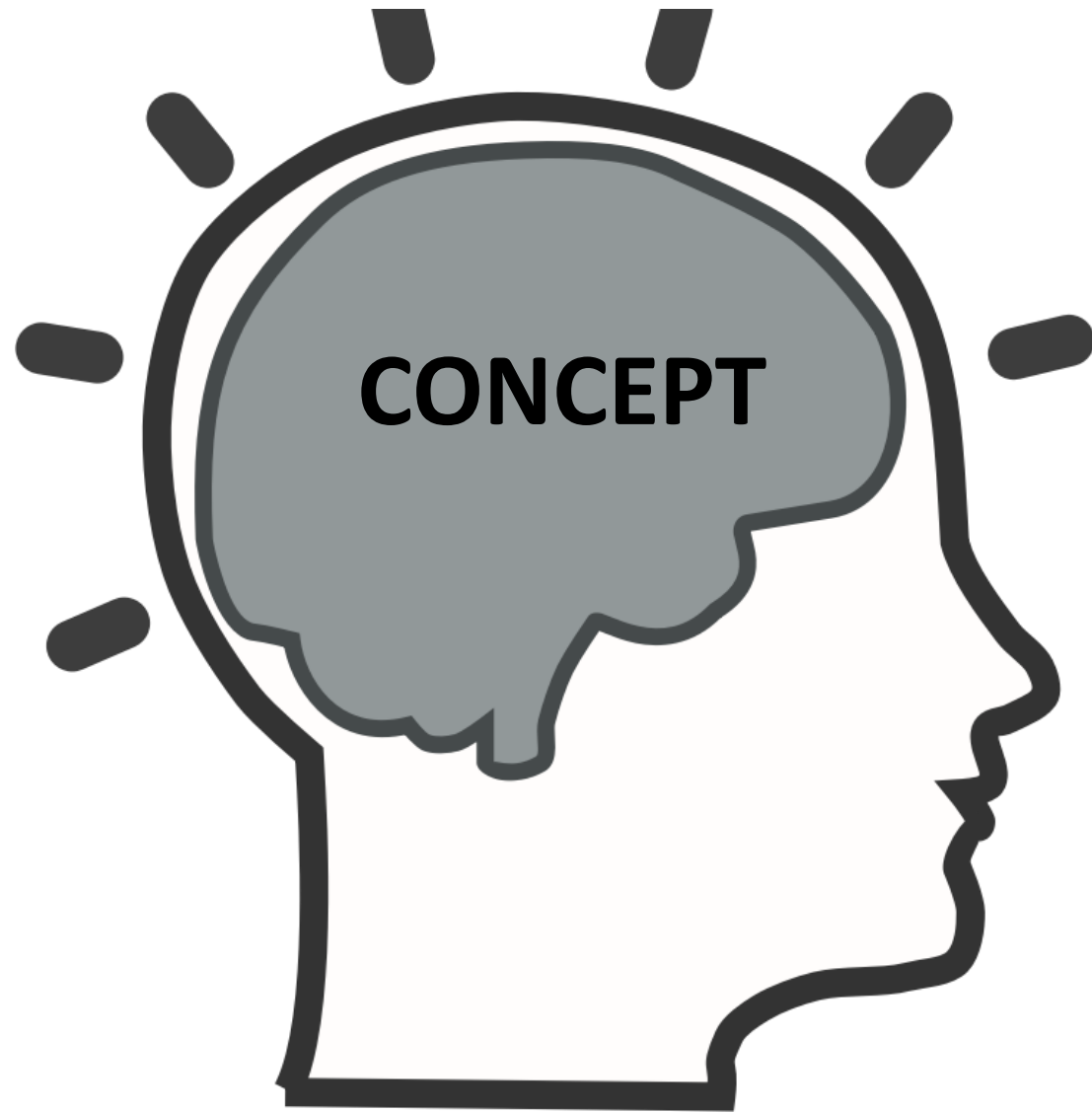
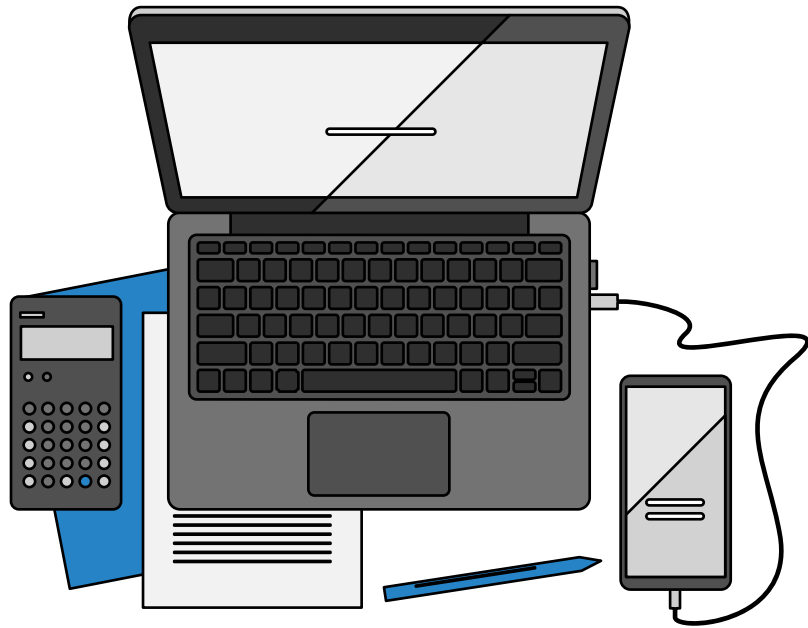




Python

Let the screen do the show

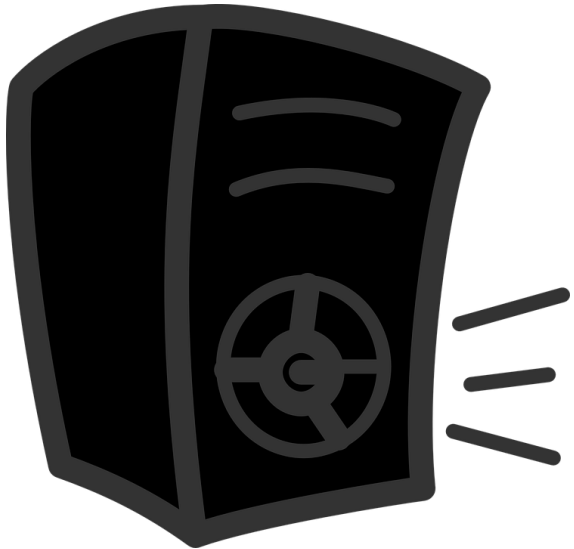




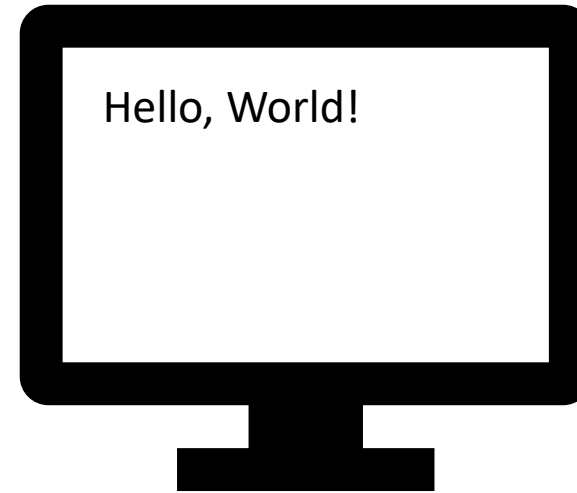
Computers are tools made to help people.

It is important for the computer to tell us what it knows.

There are at least two ways to express the information



The computer make sound
by speaker.



The computer output text on
the screen.



Q:
Please write a program to
print :
Hello, World!

Question



Python tell us “Hello, World!” by printing.

```
print ("Hello, World!")
```



Print is the output instruction

- Red words will be printed

```
print("Hello, World!")
```

- How do you print “你好”?

```
print ("你好")
```



Make sure to add some description in between codes.

- Solution 1 : comment one line of the code
- Solution 2 : comment one part of the code

```
print("Hello, Dice!")  
# This is a single line of remark  
print("Hello, Dice!")  
# output with print
```

```
''''''
```

These are multiple lines of remark.
None of these texts or codes
would be printed.

```
''''''
```





Python

Extended concepts

請老師視學生的程度斟酌使用



Concept 1: line breaks or not

- Each `print()` wraps when it is printed.
- No line breaks?
`print(1, end="")`
- Two lines breaks?
`print(1, end='\n\n')`
- `\n` , means line breaks

No line breaks
=> `print(1, end=" ")`

Two line breaks
=> `print(1, end='\n\n')`

What if we set a line
breaks end = ???
=> `print(1, end='\n')`



Concept 1: The Method of None Line Breaks

- No parameters needed when line breaks

No need to add any parameters after the print.

The line will break automatically.

```
1 print("2-3=5")
2 print("2-3=5")
```




```
2-3=5
2-3=5
```

- No line breaks

`end=""` should be added after the print.

```
1 print("2-3=5", end="")
2 print("2-3=5")
```



```
2-3=52-3=5
```



What are the differences?

Hello, DICE!
Hello, DICE!

```
1 print("Hello, DICE!")
```

```
[Python_1_1]$ python3 -d main.py | tee main.py.err  
Hello,DICE!  
[Python_1_1]$
```

1:1:Hello, DICE

測試行數	1	你的行數	1	本題配分	100.0
項數(測試/學生)	2.0/1.0	正確項目數	0.6666667	正確比率	0.33
Time Spent	1.75662E-4 sec				
本題得分	33.33				

作業(1)狀態顯示

題號	次數	得分	題目	時間
1	2	100.0	HelloDICE	2020/7/18 下午 01:35:03楊靜怡

本次作業得分100.00



Empty space does not mean nothing!

Bin	Dec	Hex		Bin	Dec	Hex		Bin	
0010 0000	32	20	(space)	0100 0000	64	40	@	0110 0000	9
0010 0001	33	21	!	0100 0001	65	41	A	0110 0001	9
0010 0010	34	22	"	0100 0010	66	42	B	0110 0010	9
0010 0011	35	23	#	0100 0011	67	43	C	0110 0011	9
0010 0100	36	24	\$	0100 0100	68	44	D	0110 0100	10
0010 0101	37	25	%	0100 0101	69	45	E	0110 0101	10
0010 0110	38	26	&	0100 0110	70	46	F	0110 0110	10
0010 0111	39	27	'	0100 0111	71	47	G	0110 0111	10
0010 1000	40	28	(0100 1000	72	48	H	0110 1000	10
0010 1001	41	29)	0100 1001	73	49	I	0110 1001	10
0010 1010	42	2A	*	0100 1010	74	4A	J	0110 1010	10
0010 1011	43	2B	+	0100 1011	75	4B	K	0110 1011	10
0010 1100	44	2C	,	0100 1100	76	4C	L	0110 1100	10



Capital letters and Small letters are not the same

Binary Number	Decimal Number	Hex Number	Graph	Binary Number	Decimal Number	Hex Number	
0100 0000	64	40	@	0110 0000	96	60	`
0100 0001	65	41	A	0110 0001	97	61	a
0100 0010	66	42	B	0110 0010	98	62	b
0100 0011	67	43	C	0110 0011	99	63	c
0100 0100	68	44	D	0110 0100	100	64	d
0100 0101	69	45	E	0110 0101	101	65	e



List cited above:

American Standard Code for Information Interchange (ASCII)

<https://zh.wikipedia.org/wiki/ASCII>

