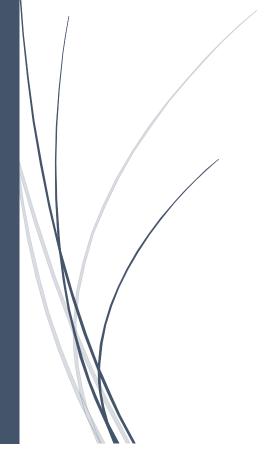
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# Al Diploma

**Assessment Three** 



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### Memory Address Python:

- To retrieve the memory address of any python object the function **id(object)** is used, it returns a unique number which changes every run of the program.
- To convert the returned id of the memory cell into its hexadecimal representation the function used is **hex(object)**
- So, the full instruction will be **print(hex(id(object)))**

```
In [1]: x=5
    y=8.5
    z="Ahmed"
    print(hex(id(x)))
    print(hex(id(y)))
    print(hex(id(z)))

    0x7ff99af2a210
    0x1f5578a0910
    0x1f55790c270
In []:
```

## Mathematical precedence:

Precedence	Associativity	Operator	Description
18	Left-to-right	()	Parentheses (grouping)
17	Left-to-right	f(args)	Function call
16	Left-to-right	x[index:index]	Slicing
15	Left-to-right	x[index]	Array Subscription
14	Right-to-left	**	Exponentiation
13	Left-to-right	~ <sub>X</sub>	Bitwise not
12	Left-to-right	+x -x	Positive, Negative
11	Left-to-right	* / %	Multiplication Division Modulo
10	Left-to-right	+	Addition Subtraction
9	Left-to-right	<< >>	Bitwise left shift Bitwise right shift
8	Left-to-right	&	Bitwise AND
7	Left-to-right	٨	Bitwise XOR
6	Left-to-right		Bitwise OR
5	Left-to-right	in, not in, is, is not, <, <=, >, >=, <>, == !=	Membership Relational Equality Inequality
4	Left-to-right	not x	Boolean NOT
3	Left-to-right	and	Boolean AND
2	Left-to-right	or	Boolean OR
1	Left-to-right	lambda	Lambda expression

#### References

- [1] w3schools, "w3schools," [Online]. Available: https://www.w3schools.com/python/ref\_func\_id.asp.
- [2] GeeksforGeeks, "GeeksforGeeks," 15 10 2020. [Online]. Available: https://www.geeksforgeeks.org/python-hex-function/.
- [3] J. Cavin, "study.com," [Online]. Available: https://study.com/academy/lesson/python-operator-of-precedence.html.