

# Feb5 DSA Day1

February 6, 2021

```
[1]: 3 + 5
```

```
[1]: 8
```

```
[2]: 2 ** 8
```

```
[2]: 256
```

```
[3]: 2 * 3
```

```
[3]: 6
```

```
[6]: a = b = c = 10
      print(a, end = " ")
      print(b, end = " ")
      print(c)
```

```
10 10 10
```

```
[7]: a = b = c = 10
      print(a, b, c)
```

```
10 10 10
```

x = 20 print(type(x)) print(id(x))Dynamically typed language

```
[11]: x = 'hello'
      print(type(x))
```

```
<class 'str'>
```

```
[12]: a, b, c = 10, 20, 30

      print(a, b, c)
```

```
10 20 30
```

```
[13]: a, b = 10, 20
```

```
temp = a
a = b
b = temp

print(a, b)
```

20 10

```
[15]: a, b = 10, 20

a, b = b, a
print(a, b)
```

20 10

```
[17]: a = b = c = 10
print(id(a))
print(id(b))
print(id(c))

b = 20
print(b)
print(id(a))
print(id(b))
print(id(c))
```

1650550080  
1650550080  
1650550080  
20  
1650550080  
1650550240  
1650550080

```
[18]: print(a, b, c)
```

10 20 10

```
[19]: b = 10
print(id(b))
```

1650550080

## 1 Input in Python

```
[20]: x = input('Enter a value: ')
      print(x)
```

```
Enter a value: 25
25
```

```
[24]: x = input('Enter val 1: ')
      y = input('Enter val 2: ')

      print(type(x), type(y))
      print(x + y)
```

```
Enter val 1: 25
Enter val 2: 12
<class 'str'> <class 'str'>
2512
```

```
[23]: print('hello ' + 'coders')
```

hello coders

```
[25]: x = int(input('Enter val 1: '))
      y = int(input('Enter val 2: '))

      print(type(x), type(y))
      print(x + y)
```

```
Enter val 1: 25
Enter val 2: 12
<class 'int'> <class 'int'>
37
```

```
[27]: a = 'hello'

      b = int(a)

      print(type(b))
```

`ValueError`

Traceback (most recent call last)

```
<ipython-input-27-5da4789ed966> in <module>
```

```

1 a = 'hello'
2
----> 3 b = int(a)
4
5 print(type(b))

```

```
ValueError: invalid literal for int() with base 10: 'hello'
```

```
[31]: x = input('Enter values: ').split()
      print(x)

      l = []
      for i in x:
          l.append(int(i))

      print(l)
```

```
Enter values: 10 20 30 40 50
['10', '20', '30', '40', '50']
<class 'list'>
[10, 20, 30, 40, 50]
```

```
[32]: x = [int(i) for i in input('Enter values: ').split()]
      print(x)
```

```
Enter values: 10 20 30 40 50
[10, 20, 30, 40, 50]
```

```
[33]: a = int(input('Enter values: '))
      print(a)
```

Enter values: 10 20 30 40 50

[illegible]

```
<ipython-input-33-7ea439596117> in <module>
----> 1 a = int(input('Enter values: '))
      2 print(a)
```

ValueError: invalid literal for int() with base 10: '10 20 30 40 50'

```
[34]: l = [10, 20, 30]
      l.append(40)
      print(l)
```

[10, 20, 30, 40]

```
[36]: x = 'a'
      print(ord(x))
```

97

```
[39]: x = 122
      print(chr(x))
```

z

```
[ ]:
```