

DSA With Python Essentials

January 19, 2021

```
[1]: a = 10  
     print(a)
```

10

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

10 10 10
10
10
10

```
[1]: a = b = c = 10  
     print(id(a))  
     print(id(b))  
     print(id(c))  
  
     b = 20  
     print(id(b))
```

1513907520
1513907520
1513907520
1513907680

```
[3]: a, b, c = 10, 20, 30  
     print(a, b, c)
```

10 20 30

```
[4]: x = input('Enter a val: ')  
     y = input('Enter another val: ')  
     print(x + y)
```

```
Enter a val: 15
Enter another val: 25
1525
```

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

```
hellocoders
```

```
[6]: x = int(input('Enter a val: '))
     y = int(input('Enter another val: '))
     print(x + y)
```

```
Enter a val: 15
Enter another val: 25
40
```

```
[8]: x = input('Enter values: ')
     print(x)
     print(type(x))
```

```
Enter values: 10 20 30 49 50
10 20 30 49 50
<class 'str'>
```

```
[10]: x = input('Entr values: ').split()
      l = []
      for i in x:
          l.append(int(i))
      print(l)
```

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

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

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

```
* ** *** **** *****
```

```
[24]: n = int(input('Enter the value: '))
      for i in range(1, n + 1):
          print("*" * i)
```

```
Enter the value: 4
*
**
```

```
***
****
```

```
[19]: "hello" * 3
```

```
[19]: 'hellohellohello'
```

```
1 22 333 4444 55555
```

```
[22]: for i in range(1, 6):
      print(str(i) * i)
```

```
1
22
333
4444
55555
```

```
* ** *** **** *****
```

```
[37]: n = int(input('Enter the value: '))

      for i in range(1, n + 1):
          print(" " * (n - i), "*" * i)
```

```
Enter the value: 5
```

```
    *
   **
  ***
 ****
*****
```

1 List

```
[25]: l = [1, 2, 5, 7, 8, 'Raj', '&']
      print(l)
```

```
[1, 2, 5, 7, 8, 'Raj', '&']
```

```
[26]: l.append(20)
      print(l)
```

```
[1, 2, 5, 7, 8, 'Raj', '&', 20]
```

```
[27]: l.insert(0, 12)
      print(l)
```

```
[12, 1, 2, 5, 7, 8, 'Raj', '&', 20]
```

```
[28]: l.insert(10, 50)
      print(l)
```

```
[12, 1, 2, 5, 7, 8, 'Raj', '&', 20, 50]
```

```
[29]: l.pop()
      print(l)
```

```
[12, 1, 2, 5, 7, 8, 'Raj', '&', 20]
```

```
[30]: l.pop(4)
      print(l)
```

```
[12, 1, 2, 5, 8, 'Raj', '&', 20]
```

```
[31]: l.remove('Raj')
      print(l)
```

```
[12, 1, 2, 5, 8, '&', 20]
```

address of arr[i] = BA + i * w

101 + 4 * 4 = 117

```
[ ]:
```