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Assignment :-

Basic Python :-

```
1) fname = input("Enter your First name")
   lname = input("Enter your last name")
   print(lname + " " + fname)
```

✗

```
2) values = input("Enter some comma separated  
nos:")
```

```
list = values.split(",")
tuple = tuple(list)
print('List:', list)
print('Tuple:', tuple)
```

```
3) color-list = ["Red", "Green", "White", "Black"]
   print("%s%s(%s, %s)" % (color-list[0], color-list[1]))
```

```
4) print(abs.__doc__)
```

```
5) import calendar
   m = int(input("Enter month:"))
   y = int(input("Enter year:"))
   print(calendar.month(m, y))
```

```
6) from datetime import date
   f_date = date(2014, 7, 2)
   l_date = date(2014, 7, 11)
   delta = l_date - f_date
   print(delta.days)
```

```
7.) def is_group_member (group_data, n):
    for value in group_data:
        if n == value:
            return True
    return False
```

```
print (is_group_member ([1, 5, 8, 3], 3))
print (is_group_member ([5, 8, 3], -1))
```

```
8.) def histogram (items):
    for n in items:
        output = ''
        times = n
        while (times > 0):
            output += '@'
            times = times - 1
        print (output)
    histogram ([1, 2, 4, 8])
```

```
9.) for L = ['My', 'Name', 'is', 'Omkar']
    ans = ''
    for i in L:
        ans ans = ans + ' ' + i
    print (ans)
```

```
10.) color_list_1 = set (["white", "Black", "Red"])
    color_list_2 = set (["Red", "Green"])
    print ("Original set elements:")
    print (color_list_1)
    print (color_list_2)
    print ("In Diff of color_list_1 and color_list_2:")
    print (color_list_1 - color_list_2)
```



```
print C"\n Diff of color_list_2 and color_list_1:"")
print Ccolor_list_2.diff(Ccolor_list_1))
```

11.) `import os.path`
`print (os.path.exists ('main.txt'))`
`print (os.path.exists ('main.py'))`

12.) `import os`
`print (os.system ('ls -l'))`

13.) `import os`
`cpu_count = os.cpu_count ()`

14.) `from os import listdir`
`from os.path import isfile, join`
`files_list = [f for f in listdir`
`C'home/students'`
`if isfile(join (C'home/students',`
`f))]`
`print (files_list);`

15.) `import os`
`for item, value in os.environ.items ():`
`print ('%3 : %3' % format (item, value))`

16.) `import os`
`os.environ.get ('USERNAME')`

```
17) import time  
start = time.time()
```

```
a = 0
```

```
for i in range(1000):
```

```
    a += (i ** 100)
```

```
end
```

```
end = time.time()
```

```
18) from pathlib import Path
```

```
p = Path("main.py").resolve()
```

```
print(p)
```

```
19) import os, path, time
```

```
file = path.Path('abc.py')
```

```
print ("Last modification time : %s" %
```

```
time.ctime(os.path.getmtime(file)))
```

```
print (" %s" % time.ctime(os.path.getmtime  
                           (file)))
```

```
20) x = int(input("Enter 1st no:"))
```

```
y = int(input("Enter 2nd no:"))
```

```
z = int(input("Enter 3rd no:"))
```

```
a1 = min(x, y, z)
```

```
a3 = max(x, y, z)
```

```
a2 = (x + y + z) - a1 - a3
```

```
print ("Nos. in sorted order:", a1, a2, a3)
```

```
21) import glob
import os
files = glob.glob ("*.txt")
files.sort (key = os.path.getmtime)
print (" \n" .join (files))
```

```
22) import sys
print ("This is the name/path of the script: ",
      sys.argv[0])
print ("No. of arguments:", len (sys.argv))
print ("Argument List:", str (sys.argv))
```

```
23) write a import sys
import textwrap
module_name = ', '.join (sorted (sys.builtin
                                _module_names))
print (textwrap.fill (module_name, width = 70))
```

```
24) import sys
str = "five"
y = 225
W = [5, 6, 8, 'Orange', 'Lemon']
print ("Size of", str, "=", str (sys.getsizeof (str)) +
      " bytes")
print ("Size of", y, "=" + str (sys.getsizeof (y)) +
      " bytes")
print ("Size of", W, "=", sys.getsizeof (W),
      " bytes")
```


25) import sys

print()

print("current value of the recursion
limit:")

print(sys.getrecursionlimit())

print()