```
# Literate Programming
* It is a combination of both coding and Documentation
* Order List
    1. AITS
        - Cse
        - ECE
        - IT
        <img src='aplogo.jfif'>
        - Mech
        - Civil
    2. CBIT
        - CSE
        - ECE
        - EEE
        - Mech
    3. KSRM

```

In [3]:

```
# Single line Commenting

```

In [6]:

```
print(" Hello world .. !")
```

```
 Hello world .. !
```

In [9]:

```
# Python Variables
# int x = 5;
# int x = 7;
a = 8
a
print(a)

b = 3.6
print(type(a))
print(type(b))
d='apssdc'
print(type(d))


```

```
8
<class 'int'>
<class 'float'>
<class 'str'>
```

In [21]:

```
a=5
b=2
print(a,b)
print("addition of a and b is ",a+b)
print("Addition of", a ,"and", b,"is " ,a+b)
print("subtraction of", a ,"and", b,"is " ,a-b)
print("multiplication of", a ,"and", b,"is " ,a*b)
print("Divistion of", a ,"and", b,"is " ,a/b)
print("Floor Division of", a ,"and", b,"is " ,a//b)
print("power  of", a ,"and", b,"is " ,a**b)
print("modulo  of", a ,"and", b,"is " ,a%b)
```

```
5 2
addition of a and b is  7
Addition of 5 and 2 is  7
subtraction of 5 and 2 is  3
multiplication of 5 and 2 is  10
Divistion of 5 and 2 is  2.5
Floor Division of 5 and 2 is  2
power  of 5 and 2 is  25
modulo  of 5 and 2 is  1
```

In [23]:

```
import keyword
print(keyword.kwlist)
print("Total keywords are:",len(keyword.kwlist))
```

```
['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break',
'class', 'continue', 'def', 'del', 'elif', 'else', 'except', 'finally', 'fo
r', 'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'no
t', 'or', 'pass', 'raise', 'return', 'try', 'while', 'with', 'yield']
Total keywords are: 35
```

In [28]:

```
#Getting input from user

n1=int(input("Enter the first value :"))

n2=int(input("Enter the second Value :"))

print("addition of n1 and n2 is ",n1+n2)


```

```
Enter the first value :2
Enter the second Value :3
addition of n1 and n2 is  5
```

In [30]:

```
#Geeting to our friend
frind_name=input("Enter the your friend name :")
geetings=input("Enter the Greetings :")
print("hi,"+frind_name+geetings)
```

```
Enter the your friend name :lokesh
Enter the Greetings :Good Evening
hi,lokeshGood Evening
```

```
# Statements in Python
* 3 Tpyes
- Condtional statements
    - if
    - if else
    - if elif else

- Control Statements/Iterators/Looping
    - For
    - While
- Jumppig Statements
    - Continoue
    - Break
    - Pass
    - return

```

In [ ]:

```
# - Condtional statements
#     - if
#     - if else
#     - if elif else
#syntax
if (condtion):
    ...stmts
```

In [39]:

```
a=7
b=2
if a<b:
    print("Yes It is true")
```

In [ ]:

```
# - if else sysntax
if condition:
    ...stms
else:
    ...stms
```

In [40]:

```
if a<b:
    print("Yes it is true")
else:
    print("No, it is false")
```

```
No, it is false
```

In [ ]:

```
# - if elif else syntax
if condition1:
    ...stms
elif condition2:
    ...stms
else:
    ...stms
```

In [49]:

```
# find the Gratest number
x=int(input())
y=int(input())
z=int(input())
if x>y and x>z:
    print("X is grater ")
elif y>z:
    print("Y is Grater ")
else:
    print("Z is Grater ")


```

```
8
9
15
Z is Grater
```

In [ ]:

```
# Tasks:
# 1. Check given year is Leap year or not
   #2020-->leap year
    #2019-->non-leap,2001-->non-leap,1900-->non-leap
# 2.input n=0
#   find the given input is positive or negetive or zero
# 3.check the given number is even or odd
# 4.input n=28
#    if n is below 16 print the "cool",if n is between
#     16-25 print "moderate"if n is above 25-30 print the
#     "Hot"
#     input:n=5
#     output:    5 * 1 = 5
#                5 * 2 = 10
#                5 * 3 = 15..
#                 ...
#                 5 * 10 = 50
```

```
# Control Statements
```

```
* For loop

* while

```

In [54]:

```python
# For loop syntax
# Print the first 10 natural number
for i in range(1,11):
    print(i)
```

```
1
2
3
4
5
6
7
8
9
10
```

In [59]:

```python
for even in range(1,11):
    if even%2==0:
        print(even,end=" ")
```

```
2 4 6 8 10
```

In [60]:

```python
#Print the all even numbers from 0 to 100 with out checking condtion
for numbers in range(0,101,2):
    print(numbers,end=" ")
```

```
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52
54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100
```

In [61]:

```python
for numbers in range(1,101,2):
    print(numbers,end=" ")
```

```
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53
55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99
```

In [ ]:

```
# examle Generate Rollnumber
# 18701A0401 to 18701A0460

# 18701A0401
# 18701A0402
# 18701A0403
# ..
# ..
# 18701A0460
#Multiplication table


input:n=5
output:    5 * 1 = 5
           5 * 2 = 10
           5 * 3 = 15..
            ...
            5 * 10 = 50
# n=5
# n is factor of 1000 or not


```

In [66]:

```
for rollnumber in range(401,461):
    if rollnumber==409 or rollnumber==419:
        continue
    else:
        print("18701A0"+str(rollnumber))
```

```
18701A0401
18701A0402
18701A0403
18701A0404
18701A0405
18701A0406
18701A0407
18701A0408
18701A0410
18701A0411
18701A0412
18701A0413
18701A0414
18701A0415
18701A0416
18701A0417
18701A0418
18701A0420
18701A0421
18701A0422
18701A0423
18701A0424
18701A0425
18701A0426
18701A0427
18701A0428
18701A0429
18701A0430
18701A0431
18701A0432
18701A0433
18701A0434
18701A0435
18701A0436
18701A0437
18701A0438
18701A0439
18701A0440
18701A0441
18701A0442
18701A0443
18701A0444
18701A0445
18701A0446
18701A0447
18701A0448
18701A0449
18701A0450
18701A0451
18701A0452
18701A0453
18701A0454
18701A0455
```

```
18701A0456
18701A0457
18701A0458
18701A0459
18701A0460
```

In [ ]: