LAB #03

Making Functions, Control Structures, Relational Constructs, Logical Constructs, Branching Constructs, Looping constructs

Spring 2023

CSE-301L Signals & Systems Lab

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"On my honor, as a student of the University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work"

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Task 1

Code:

Output:

```
F=input('Enter Temperature in F :');
C=(5/9)*(F-32);
disp('Temperature  in C :');
disp(C);
```

Task 2

Code:

Output:

```
>> T2

elements =

    -3     0     6
```

Task 3

Code:

Output:

```
>> T3
Enter a 4

C =

   192
```

Task 4

Code:

Output:

```
>> T4
C =  1
C =  4
C =  6
C =  7
C =  8
C =  9
C =  8
C =  9
C = 10
```

Task 5

Code:

Output:

```
>> T5

w = 24
```

Task 6

Code:

Output:

```
>> T6
cube = 1
cube = 8
cube = 27
cube = 64
cube = 125
cube = 216
cube = 343
cube = 512
cube = 729
cube = 1000
```

Task 7

Code:

Output:

```
>> T7
      7     13     12
     19     11     11
      5      6      3
```

Task 8

Function Code:

Function Call Code:

Output:

```
>> T8
      1      1      1
      1      2      3
      1      3      6
```

Task 9

Code:

Output:

```
>> T9
*****************
k =1
b =-2
x =-1
y =-2
*****************
k =2
b = -2
x =0
y =-2
*****************
k = 3
b =-3
x =1
y =-3
*****************
k =4
b = -3
x =2
y = -2
*****************
k = 5
b =-3
x =3
y =1
```

Task 10

Code:

Output:

```
>> T10
Enter a number : 5
Factorial : 120
```

Task 11

Code:

Output:

```
>> T11
Enter Vector one : [1 2 3]
Enter Vector two : [4 5 6]
Resultant Vector : 17    29    45
```

Task 12

Code:

Output:

```
>> T12

ans = 0     0     0
ans = 1     1     1
ans = 0     0     0
ans = 1     1     1
ans = 1     1     1
```

Task 13

Function Code:

Function Call Code:

Output:

```
>> T13
     1     2     3     5     8    13
```

Task 14

Code:

Output:

```
>> T14
Height in cm: 190.5000
Mass in kg: 81.6467
Height in cm: 165.1000
Mass in kg: 53.9776
```

Task 15

Code:

Output:

```
>> T15
Banana
Mango
Water Milon
Apple
```

```
Sadeeq
Sadia
Sudais

PUBG
COD
MOH
Far Cry 3
```

Task 16

Function Code:

Function Call:

Output:

```
>> T16
     1      2      3      4      5      6      7
8      9
```