Annexure-I

List of Tasks

Tas	Task Title	Description	Wee
k			k
No.			
1.	Installation	Download and install Anaconda3	1
		Install PyTorch	
		Install TensorFlow 2.0	
		Install VSCode	
		Install PyCharm	
2.	Linux	Practice these commands:	1
	Command	pwd, cd, ls, cat, sudo, man, redirection, mkdir, rm, rmdir, cp, mv, file, reading, cat,	
	S	more, less, head, alias, shutdown, restart, touch, nano, bash, sh, chmod, ps, kill,	
		_dpkg	
3.	Python		1
		# This program adds two numbers	
		num1 = 1.5	
		num2 = 6.3	
		Tidiliz = 0.5	
		# Add two numbers	
		sum = num1 + num2	
		# Display the sum	
		<pre>print('The sum of {0} and {1} is {2}'.format(num1, num2, sum))</pre>	

```
Python
4.
              # Store input numbers
              num1 = input('Enter first number: ')
              num2 = input('Enter second number: ')
              # Add two numbers
              sum = float(num1) + float(num2)
              # Display the sum
              print('The sum of {0} and {1} is {2}'.format(num1,
              num2, sum))
    Python
5.
              # Python Program to calculate the square root
              # Note: change this value for a different result
              num = 8
              # To take the input from the user
              #num = float(input('Enter a number: '))
              num_sqrt = num ** 0.5
              print('The square root of %0.3f is %0.3f'%(num
              ,num_sqrt))
```

```
Python
6.
                # Find square root of real or complex numbers
                # Importing the complex math module
                import cmath
                num = 1+2j
                # To take input from the user
                #num = eval(input('Enter a number: '))
                num_sqrt = cmath.sqrt(num)
                print('The square root of {0} is {1:0.3f}+{2:0.3f}j'.format(num)
                ,num_sqrt.real,num_sqrt.imag))
     Python
7.
                # Python Program to convert temperature in celsius
                to fahrenheit
                # change this value for a different result
                celsius = 37.5
                # calculate fahrenheit
                fahrenheit = (celsius * 1.8) + 32
                print('%0.1f degree Celsius is equal to %0.1f degree
                Fahrenheit' %(celsius, fahrenheit))
```

```
# Python Program to find the area of triangle

a = 5
b = 6
c = 7

# Uncomment below to take inputs from the user
# a = float(input('Enter first side: '))
# b = float(input('Enter second side: '))
# c = float(input('Enter third side: '))

# calculate the semi-perimeter
s = (a + b + c) / 2

# calculate the area
area = (s*(s-a)*(s-b)*(s-c)) ** 0.5
print('The area of the triangle is %0.2f' %area)
```

```
Python
9.
               # Solve the quadratic equation ax^**2 + bx + c = 0
               # import complex math module
               import cmath
               a = 1
               b = 5
               c = 6
               # calculate the discriminant
               d = (b**2) - (4*a*c)
               # find two solutions
               sol1 = (-b-cmath.sqrt(d))/(2*a)
               sol2 = (-b+cmath.sqrt(d))/(2*a)
               print('The solution are {0} and
               {1}'.format(sol1,sol2))
    Python
10.
               # Taking kilometers input from the user
               kilometers = float(input("Enter value in kilometers: "))
               # conversion factor
               conv_fac = 0.621371
               # calculate miles
               miles = kilometers * conv_fac
               i = 10
11.
    Python
                                                                           1
               if (i > 15):
                  print ("10 is less than 15")
                      ("I am Not in if")
```

40	D (1)		14
12.	Python	i = 20;	1
		if (i < 15):	
		print ("i is smaller than 15")	
		print ("i'm in if Block")	
		-	
		else:	
		print ("i is greater than 15")	
		print ("i'm in else Block")	
		print ("i'm not in if and not in else Block")	
13.	Python	i = 10	1
		if $(i == 10)$:	
		# First if statement	
		if (i < 15):	
		print ("i is smaller than 15")	
		# Nested - if statement	
		# Will only be executed if statement above	
		# it is true	
		··	
		if (i < 12):	
		print ("i is smaller than 12 too")	
		else:	
		print ("i is greater than 15")	
		F (9 ,	
14.	Python	i = 20	1
		if (i == 10):	
		print ("i is 10")	
		elif (i == 15):	
		print ("i is 15")	
		_	
		elif (i == 20):	
		print ("i is 20")	
		else:	
		print ("i is not present")	
15	Dython	Exercise on for loops in Python:	1
15.	Python	https://www.geeksforgeeks.org/python-for-loops/	1
16.	Python	Exercise on While loops in Python:	1
10.	1 901011	https://www.geeksforgeeks.org/python-while-loops/	'
17.	Python	Exercise on Break statement in Python:	1
''.	. yalloli	https://www.geeksforgeeks.org/python-break-statement/	'
18.	Python	Exercise on Continue statement in Python:	1
1.0.	' ,	https://www.geeksforgeeks.org/python-continue-statement/	'
19.	Python	Exercise on various looping techniques in Python:	1
	, ,	https://www.geeksforgeeks.org/looping-techniques-python/	
20.	Python	Exercise on User defined functions in Python:	2
- 3.	,	https://www.geeksforgeeks.org/functions-in-python/	

21.	Python	Exercise on List data type in Python:	1
22.	Python	https://www.programiz.com/python-programming/list	'
	Python	Exercise on Tuple data type in Python:	1
	Fyillon	https://www.programiz.com/python-programming/tuple	'
	Python	Exercise on String data type in Python:	1
23.	Fyllion	https://www.programiz.com/python-programming/string	'
24.	Python	Exercise on Set data type in Python:	1
∠4 .	Fyllion	https://www.programiz.com/python-programming/set	'
25.	Python	Exercise on Dictionary data type in Python:	1
	1 yulon	https://www.programiz.com/python-programming/dictionary	'
26.	Python	Exercise on Exception Handling in Python:	2
	1 yulon	https://www.programiz.com/python-programming/exception-handling	
27.	Python	Exercise on User defined Exception Handling in Python:	2
	1 yulon	https://www.programiz.com/python-programming/user-defined-exception	_
28.	Numpy	Exercise on Numpy create Array Using Python:	3,4
	Hampy	https://www.w3schools.com/python/numpy_creating_arrays.asp	0,4
29.	Numpy	Exercise on Numpy Indexing in Array Using Python:	3,4
25.	Hampy	https://www.w3schools.com/python/numpy_array_indexing.asp	0,4
30.	Numpy	Exercise on Numpy Slicing in Array Using Python:	3,4
JU.	Hampy	https://www.w3schools.com/python/numpy_array_slicing.asp	0,4
31.	Numpy	Exercise on Numpy Slicing in Array Using Python:	3,4
J1.	Hampy	https://www.w3schools.com/python/numpy_data_types.asp	0, 1
32.	Numpy	Exercise on Numpy Array coping and viewing:	3,4
JΖ.	Hampy	https://www.w3schools.com/python/numpy_copy_vs_view.asp	0, 1
33.	Numpy	Exercise on Numpy Array Shaping :	3,4
55.	Hampy	https://www.w3schools.com/python/numpy_array_shape.asp	0, 1
34.	Numpy	Exercise on Numpy Array reshaping :	3,4
O	, tumpy	https://www.w3schools.com/python/numpy_array_reshape.asp	0, 1
35.	Numpy	Exercise on Numpy Array iteration:	3,4
55.		https://www.w3schools.com/python/numpy_array_iterating.asp	0, .
36.	Numpy	Exercise on Numpy Matrix joining	3,4
	, , , , ,	https://www.w3schools.com/python/numpy_array_join Week 4.asp	, .
37.	Numpy	Exercise on Numpy Array splitting	3,4
57.	Numpy	https://www.w3schools.com/python/numpy_array_split.asp	3,4
38.	Numpy	Exercise on Numpy Array searching	3,4
50.	Numpy	https://www.w3schools.com/python/numpy_array_search.asp	0,4
39.	Numpy	Exercise on Numpy Array sorting	3,4
JJ.	Hampy	https://www.w3schools.com/python/numpy_array_sort.asp	0,4
40.	Numpy	Exercise on Numpy Array Random technique	3,4
10.	Hampy	https://www.w3schools.com/python/numpy_random.asp	0, 1
41.	Pandas	Exercise on Pandas basics:	3,4
41.	1 andao	https://www.w3schools.com/python/pandas_tutorial.asp	0, 1
42.	Pandas	Exercise on Pandas installation:	3,4
	. andao	https://www.w3schools.com/python/pandas_getting_started.asp	5,=
43.	Pandas	Exercise on Pandas Series data	3,4
		https://www.w3schools.com/python/pandas_series.asp	, .
44.	Pandas	Exercise on Pandas Data Frame:	3,4
1 T.	1 41.1440	https://www.w3schools.com/python/pandas_dataframes.asp	, ,
45.	Pandas	Exercise on Pandas Open CSV files:	3,4
		https://www.w3schools.com/python/pandas_csv.asp	ر ب _ا ت