## Assignment - 2

7.	Short Note on UDF in C.
	A formation is a black of Code Theer
	performs a specific task
	performs a specific task  C cellous user to define functions
	Franction call
- A	was a wild make a first to the
	There are 3 elements for user Defined
- 2	Franchions ces follows.
	1 Function Declaration
bill only	2, Function Definition.
1.00	3. Function Call
H -p.i	State of the second state
>y	Function Declaration
9: *	* Syntax
	angen penal to a series and of the
	returntype functionName (type 1 parameter)
	type2 purumeter2 );
	standing in a self of mills, god managing to the self
100. F	-> Function declartion informs the compiles
- A	cebout the function name, parameters
12.500	is anopt ant its return type
	> function declaration consists
7-	I Returntype: It specifies the type of vulue (int, flood, char, dozeble)
This was	vulue (int, flood, char, doreble)
Trady	that function is expected to return
	to the program which coulded the
L. L.	frenction
VSS1 5	The ogar Anti- rational technique will
Const 1	2 Function Name: - Function name &
	an identifier and it specifies the
the same design	name of function.
	s have marked by the state of the later of the state of t
	** Tree 52.1

	3. parameter list
	. The puximeter list declare the type
-	and number of axariments that it
and the same of th	and number of arguments that the function expects when it is called
Carried Control	14 IIC IIC II COOK
	" Terminating Semicolon
	a. Terminating Semicolon  The terminating semicolon is important
	as it instructs the compiler that
	declaration is completed here
	decloser is confice to
	C D Cinition
7 9	ODF Definition
	* Syntax
	* Syntax  returntype function name (type 1 parameter)  type 2 parameter 2)
	Typez parameterz
	1 1 1
	11 function body
	3 and 3 2 V 10 10 10 10 10 10 10 10 10 10 10 10 10
	Function Body
	-> The function body contains declarations and the statements necessary for
willey.	and the statements necessary for
	performing the required tesk
-3	The body enclosed within carry bruces &g
	performing the required tesk.  The body enclosed within curly bruces &?  and consists of three purts
	4) (- and respectible decidation wands
,	allered inside the tunction bay
	officialism etertoments to perform the rus
	inside the function. The result
	evaluated by the function
	J. Caraca J.

		1 1 2 1 1 1 1 1 1
2.	Explain Python variable in detail.  Variables: variables are containers for storing-	
$\longrightarrow$	Variables: variables are containers too stoning-	
$\underline{\hspace{1cm}} \longrightarrow$	Rules for Python V	unable
	+ A variable can have	a short name or a -
M.A. Wi	If A variable name moist start autilia	
- 50	or the underscore character  -> A variable name comnot start with a	
•	-> A variable name c	connot start with a
	mom had	
1	> A variable name co	an only contain cupra-
	numeric character	and underscore
- nt	> vanable names eve	case-sensitive
	Valid Variable	Invalid variable X
	my Vers = "John"	2var="John"
	my-var="John"	va ="John
	myvar = "John"	-va = "John"
100		a topic second period
Truci->	Creating Variable  -> Python has no  declare variable	i comment air
	-> Python has no	command for
	déclare variable	3, 14 100 000
1 4 1 85 9	-> Variable is create	d at assign a value
	-> Nanable is created at assign a value> Don't have to declare any type-	
	Constitution of the second	alasa. The same of
-	Example	- Break
	The second second	Marie Mangaline
42.7	$x = 4 \# \cdot x \text{ is}$	int type
	2 = "ab" # 2 is	string
	print(x)	0.

>	Many values to Multiple variable.
	Many values to Multiple variable.  > Python allows to assign values to multiple variable in one line
	multiple variable in one line
	-> Example:
	> Example: x,7,2 = "A", "B,"C"
	print(x)
	print(Y)
	priant (z)
	The second secon
	> oreput
	Acieri in a min and
	B. Wall
	Could had not up a later than the
->	Many values to Multiple Variable
	Ex
	pc = Y = Z = 1 orespect
	print (x)
	print (r)
	print(z) 1
$\Longrightarrow$	Global variables
->	Variables that are created outside of a
	function evre known as alobeit variable
$\rightarrow$	Colorel variables can be used by everyone
	both inside of functions and outside
	Example:
	X = 'cauesome'
	def fun():
	print("Python is" + x)
H	<b>∌</b> 0

	enfrince Ordpret:
	Antein () Oretpret: Python is cowesome
	191107:15
->	If and anada waxicoble with same
	If you creade variable with same name inside a function, this variable
	cuill be local, and can only be used
	inside the function.
	•
$  \Rightarrow  $	The alphal kerryord
	Normally when you create a variable
1	inside a function that variable is local,
	and can only be used inside that function
<u>-</u>	To create a global variable inside a
	The global keyword  Normally, when you create a variable inside a function, that variable is local, and can only be used inside that function  To create a global variable inside a function, you can use the global keyword
1	
<u> </u>	Example:
(C	def fun ():
	global x
3	x = "fun"
	C., 0
	prfunc)
	print(x)
2	and and *
	oretpret:
	fun
	fun
	Tun

4	wheet is Type con	version in Python'?
	show with exams	oleg.
->	Trans conversions com	d casting
	of the real current to	specify the data
	type of a varial	d casting  specify the data  ole this can be done
	with cousting.	
	0	V CO / V HILL
->	Example	Datatypo
		01
	x = str("Hello")	String
	x = int (2)	String
2	x = floct (20.5)	flocid
	x = complex (4j)	complex
	x = bool(s)	bool
	я а	
->	Python Casting	A UNITY A TOTAL
		Clark and and
-> ·	There may be time	es when you want to n to a variable. This
	specify a type or	n to a variable. This
(	rin be done with	1 casting. Python is an
	object-oriented lu	n casting. Python is an nguage and as such
i	tuses classes to	define acta types,
j.	ncluding its prim	nitive types.
-> (	asting in python	r is therefore done
	using functions-as	s follows:
-> i	ntc) - an integer	define data types, nitive types. n is therefore done s follows: or number from an Hout literal, or a
	nteger literal, a	flood literal or a
	tring literal	
-> f	location - a floca	t number from an
ĵ.	nteger literal, a	flood literal or a
3	tring literal	
-> 5	trc) - a string from	n a wide variety of
	<i>c</i> 1	

	data types including literals and float	strings, integer
	r 1 0 1 00	
>	Example int()	1 a land
1	Code	ordpret
	$\dot{X} = inf(1)$	d discourse
	Y = int(2.8) Z = int("3")	2 -
	2 = 1717(-3-9)	3
$\longrightarrow$	flocat()	rising a second
	x = Hout (1)	1.0
	Y= flow(2.8)	2.8
	Z = flocut ( 30")	30.0
	le si	
>	str()	
	x = str(1)	11711
	Y = sto ("2.3")	"2.3"
	2 = str (0.5)	110.59"
No. 3141	set in a plane	with the it were
19(1) - 10	walted and in the	
dos	State of the section of	hitoria total
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sky.	the fire the street	less vill 1 str. 12
	13/1 119k 213 2	rectario Liante
	in A status cape	i ne - whi
	the state of the state of	Liver of an ideal
1000		The first transfer
	Physical Residence and Art. 15	

4.	What are function with default	
	parameter value and with return value	
	> Default parameter value > This value will be use when	
4	> This value will be use when	
	value is empty while calling	
	function.	
	> Example	
	dof referse Consistent "To 100 "2"	
	def mfun (country = "Indic"): print ("I can from " + country)	
	print I an from + country)	
	mfun ("USA")	
_	mfun () # It will use default para value	
	Oretput	
	I am from USA	
	I am from India	
	7704	
->	Function with Return values	
- Y We give using "return" kepin		
	-> to let a function return a value, use the return statement	
	value, use the return statement	
-	-> Excample Output	
	def fun(x): 10	
	return 9 * X 4	
	fun (5)	
	fun(2)	
2 2		