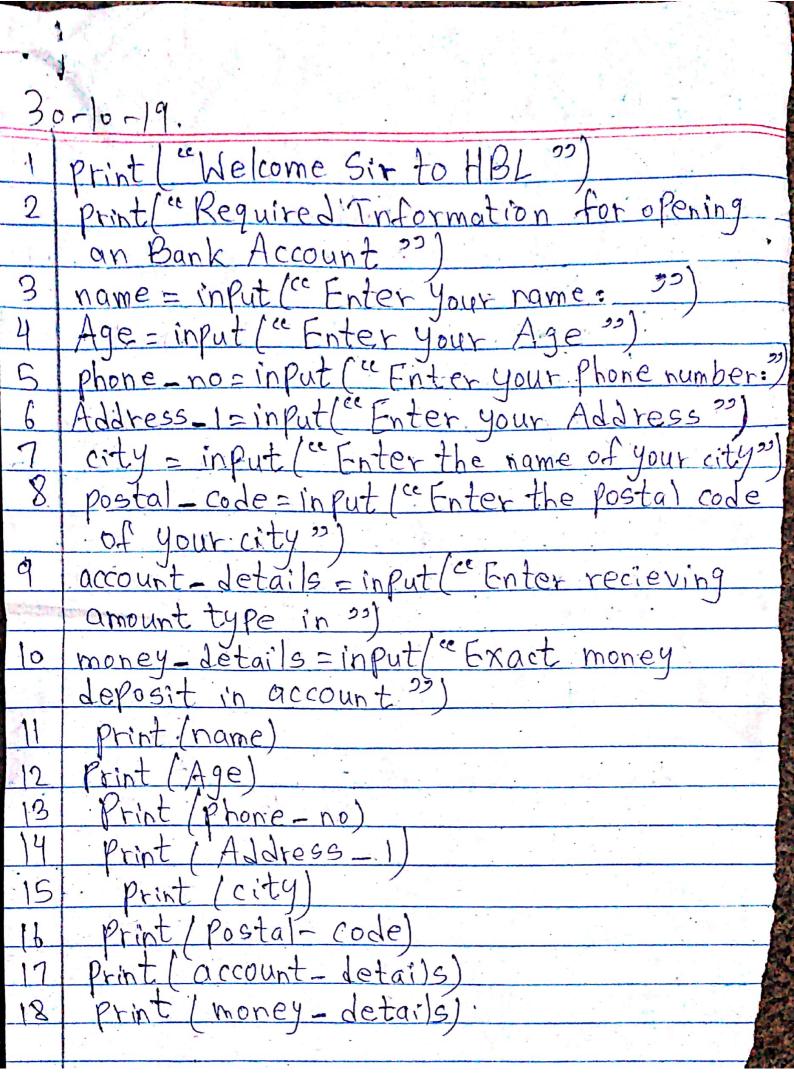
NAME: Hamood Ahmed SECTION: A
Class: Software Engineering Date: 30-10-19. ROLL No. 19B-049-SE
ROLL NO: 1915-049-SE [Lecture 2-3] ASSIGNMENT NO.4
(V-1) (allect in information about 5
different libraries we use with Python
in Advance tragramming
And The 5 different libraries we use
with Python in Advanced Programming
are
1- Numpy
2= Scipy
3- Scikit-Learn
4- Thearo
5- Tensor Flow
1- NUMPY:
Numpy is a very popular Python
library for large multi-dimensional
arrays and matrix Processing with the help of a large collection of high-level
help of a large collection of high-level
mathematical functions.
2- SCIPY:
Scipy is a very large popular
library among Machine learning enthusiastics
as it contains different modules
modules for optimization, linear algebra,
integration and statistics. The Spicy is one of the core packages that make
one of the core rachages man
up the scipy stack.
3- Scikit learn: Skikit-learn is one of the most
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30-10-19.	
- In MI 1 ilaniac for classical MI	
two basic Python libraries , Vizg	
Numpy and Scipy. Scikit learn support	1
most of the super-vised and	2_
unsupervised learning algorithms.	_
11 To	<u>ب</u>
Theano is a popular python library	<u> </u>
that is used to define, evaluate and	-
optimize mathematical expressions	a
involvin involving multi-dimensional	<u>.</u>
achieved by optimizing the utilization	8 4 7
of CPU and GPU.	
5- Tensor Flow:	1
Tensor Flow is a very Popular	
open-source library for high performan	R
numerical Computation developed by the	E
Google Brain Team in Google. As the	1
name suggests Tensor flow is a frame	
Google Brain Team in Google. As the name suggests, Tensor flow is a frame network that involves defining and running computations involving	
running computations involving	1
tensors.	
Q-2 What is Pip-command? When and When to de to do we use it?	re.
1 to de W do We use it?	
Ans The pip command is a tool for	100

30-10-19. installing and managing Python Packages, such as those found in the Python Package Index We use the Pip command for installing additional Packages not included with the standard python distribution. We use mostly in Python Package Index (PYPI For Can you write an algorithm for finding Q-3 area of Trapezoid?
The basic steps to write an algorithm for the area of the Trapezoid Add Together the lengths of the bases. The bases are the 2 sides of the trapezoid that are parallel with another Measure the height of the trapezoid. Multiply the total base length and the height together. Multiply the products by to find the area of the Trapezoid Ucm 12 cm

Area = 2 (base+1+base 2) x height = ½ (b+12) x 4 = ½ (b+12)
1-4 What do you understand by data types. How are they helpful in programming. Ans The data type defines will which operations can safely be performed to create, transform or use and use. The variable in another computation. They are helpful in program because
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They are helpful in program because
They are helpful in program because
When a programming language requires
a variable to only be used in ways
that respect its data type, that
language is said to be strongly
typed
Q-5 Consider you are opening a bank
account for this you need some
data to submit a bank. Write each
data with its data Type by
Writing a small program?



30-	10-19.
	Output
	Welcome Sir to HBL
	Required Information for opening an Bank
	Account
	Enter Your Name: Hamood Ahmed
in in	Enter Your Age: 22
1	Enter Your Phone Number: 0312-1146529
	Enter Your Address: North Nazimabad
	Block A
	Enter the name of a your city karachi Enter the postal code of your city
	Enter the postal code of your city.
	74800 1
	Enter recieving amount type in
	Credit and debit.
	the recreving amount in debit and
	Card is 10,000 PKR/=
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