20 May **Python Basic - 1**

Q.1. What are keywords in python? Using the keyword library, print all the python keywords.

Ans – python keywords are reserved words that have special meaning to the interpreter . that are used to define the syntax and structure of the python language.

Here is all paython keywords

import keywords

All\_keywords = keyword.kwlist

Print(“python keywords:”)

For kw in all keywords

Print(kw)

Q.2. What are the rules to create variables in python?

Ans – while assigning any variable it should be in equal to sign and not start with the integer ,always have some letter , we can use number but after the letter , and start wih a underscore as well , no space is allowed.

Q.3. What are the standards and conventions followed for the nomenclature of variables in python to improve code readability and maintainability?

Ans – we can use a proper indentation , as well as while writing any specific code we can use a hastag to undersrtand the code written,   
1 - we can use the lower case letter with the seprates underscore and it is called the snake\_case for variable names .

2- we can avoid python keywors or built in function names

3 – for values , numbers all lettrer should be in capital letter

Q.4. What will happen if a keyword is used as a variable name?

ANS – IT WILL SHOW a sytax error because variable cant be if , else , if will show as error in ooutput

Q.5. For what purpose def keyword is used?

Ans – def keywords are use to use to call a function we can call any function by any name and make a function according to us .we can use it with the return value as well.

Q.6. What is the operation of this special character ‘\’?

Ans – This is forward slash.if the line is so long , we can use this to start with the next line , however is is used for many things like special character , if we add somecharacter in backfslash like \n is for new line , /t = for tab space

Q.7. Give an example of the following conditions:

1. Homogeneous list
2. Heterogeneous set
3. Homogeneous tuple

Ans - homogenous where all the item are of same inside a list

Heterogenous set – where all different items are present inside the set, int ,str, float

Homogenous tuple – where all the item are of the same type ,inside a tuple

* 1. Explain the mutable and immutable data types with proper explanation & examples.

Ans – mutabale data types – which we can change the value of an object after it Is created , here are some mutable data types – list , set .dic. by terray

Immutable – str , float , tuple , int

* 1. Write a code to create the given structure using only for loop.

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Ans – for i in range(1, 10 ,2):

Print(“\*” \* I )

* 1. Write a code to create the given structure using while loop.

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Ans - i = 9

while i > 0:

print("|" \* i)

i -= 2