```
python wintroduction & setup:
 1. Whatemarisas Python?
     python is a high level, uniterpreted programming
 language known for its readability and simplicity.
                       ves of Python 2 1 ( 30) a rodus F
 2. what are the key testures
  Pythan Supports dynamic typing, Object oriented phognominy,
 interpreted execution and has entenine standard
       topic to cating emanglis Milhorn, 48 code, ...
3. Is pythan Compriled (21) minterpreted?
   Rython is unterpheted; while code is executed by
 line -by- line by the python interpreter.
4. What are the main applications top python?
                                     data Science,
  Python us used in web development,
                                     and desctop applications.
5. How do you wintan Pythan John your System?
 machine learning, automation, scripting,
   Download from Python-orgal and hun the inistaller.
     e "Add to part" is checked.
6. What is the difference between python 21, and python 3?
   Python 3 is the future and supports unicode,
             a function of the and wings round syntam,
7. How can you checked the mintalled pythan vereion?
     we python -- version (or) python3 -- version in the
torninal [command prompt.
```

6 Why us the debte of Print () Tunction in lython? the course, commonly Minut() coulputs data to me breakly seesults and displaying results what is 100? Name of a few commonly wed An IDE Crimegrated Development Envisonment) Pravides
Apols yor Cooling. Emanyles! Mychanim, VS Code, loce, How do you run ta sythen tile from the Jaryta · Suspension many adjusted and uning!?
Use Python filename py (or) Python 3 Filename py euninal? pending on your system as Configuration. in Python: interprete internation of the soul william What is a variable in python?

A variable Mones data in in memory authority hamen you yuture reference and operations. How do you declare a variable un pythan? driphy anign a value very = (g. xx to) o type decement is required. 20,64 () (15) Maria Man

The Mary 1

Water Charles

```
Course - commonly
ig result
nonly wed the first
wor as he key
nonment) Phandes
Vs Code, loce, he
 - Siverall
from the AR
tend in motiff
tile name. Py
4. shop are the
machine learning
braheroa
operations.
Pyhan?
x=10
  Phint ()
to rolled
nas well it
1111
```

January +

, function in 13. Is it because to declare the type of a variable in Python? No. Nython is dynamically typed; he type is interred at sun time. Vaciables an naming la. What are the rules for u Python? downsto studios start with a letter (ON) undersoone and comnot cout aim spaces (or) Variable hannes Special charactery. is what is the difference between global and local variables? alobal variables are accenible through our the program, while local variables are limited to the function scope. name start with a number on a number in 16. Can a variable name war why not?

Pythan? No, cit causes a syntam error, variable hannes muy begin with a letter (04) unders core. thus begins with a letter (04) under core. In what happens if you we engage in all without in the wife out of the wind of the wind of the wind out of the wind of the wind out of the wind aniquies a varied, as the variable A name envoy is varised pringaring of majored And to undefined.

8 How is wimoly manager " variables Python un amore managensery Python? vie ujev uce Counting and Jourgage Collection! 19. Can python variable names longains special charactery Alle 1 = or Pan? carif include Symbols of an a 100. Variables vames only letters, and dight and under cones Matinipula allowed. ne between 2 and 23 un to what is the difference Proposition? " consume is the work of a contraction of the contraction cheeps you emaly = grigm a value. pagam, while is hoad between two varmes. Alue from old on supple hyper in Python !. 21. What are the bank, databype vin python? mit, Yloan, boots sty lot, Pyran phyponts soughen. Sins hyperadid, set and is the difference wint, Hoar, by ween vin is yor whole rumbers, Hoat soon decimals. and complex you imaginary numbers. (61.3+45)

23. What is the difference between a list and tuple? lists are mutable and defined with EJ. where as tigles are immutable and defined win (). 24: Stow is a dictionary different from a hist? A dictionary stokes key value pairs, while a hist shotes ordered values with winder - based access. dr. What this Alt and how int is different from ist?

A plet is an amordered collection of consque elements. a Not? depues uping E3 and dis allows duplicates. mutable and 26. what is the diff evence between nu im mutable data types? hutable utypes (eg. high dict) can be dranged, in minutable um anntable types (cg. tryple; str) roturn 27. what with type () from chi on mi d'ilonal ? finister war dend of the ? sur' > for Variable C) will betterm urpress starty west Strong variables : met bone types? will willow the data types? will willow. Boolean Values dissorepresent truthiness and are solutions british simple sign eigher time (on faire.

D,

11

of. How do you convert data from me type to another in python? 18th had the type carting functions like inter, street Hoat (), list(), etc.

Truction do for different

20. what down free len() lon() yeturns the umbers un a pernence like list, string, (av) A det 1 is can converted with the dictionary lays. Conditional Statement in pythan? Conditional Statement They control the flow of enecution based on Coudinan wing up , chijf, and che. And statement in pyma 12. what is the syntam go an is uj Londi'h on! min Il code block. 1.00 livet between ig and ig-elu what is power difference if enewtes when condition is true; if edu hardles both there and true. Cases. 24. What is he we of diff in Python? datis olif allours cheeping multiple conditions after Citim June (No. 1814) instal y.

36. can you use mutiliple elif blocks in a condition? Yes, you can chain multiple, elif conditions betoulen of and ell. .36. what happens of none of the landitions are true un god an ig -clid elve block? ut s block eneutes, if the is provided, Other wist, nothing happens - market Offher wish, nothing nappens
? can me use up wither another wig? Englami
with an enample?
Yes, nested if yestements are allowed for 28- How is indentation in in whiting Indentation défines code code proces, improper indentation Condi hars all in my pyman? leads tom 2 deuration Error. 39, 400 do you diele authirle Conditions miny and for? must all be ture; or up any Conditions can be true do. What is the output of if" or if or is Python? why? Box are considered face as frey are "farry" Varues ; So the 'y' block doesn't run.

For loop in python! A1. what is for loop in python and how in is used!

A "for loop is used to Herate one oner is med? despronces like dequences like Itanings (or) ranges. 42. What is the syntax of a for loops? the survey of for item in dequence! 43. How does the range () timetion work with loops, range (start, Stop, Step) generate a degrena og humbers used for controlled looping 44. Can you loop over wrings and lists cumy for? give enamples: yes. eg. for char im "hello" (b) For atom in Sudanation dobres [1, 2, 3]. break and Coutine 45. What is the will of bue may ab miède a hoop?? break emists the loop, while confirme & ips to the cunt iteration.

do you print ally even numbers How I and do using a loop? for i im range (1,21): uj 1/. 2 = =0; prm+ (i) A7. What is the use of else with a for loop? The elu block runs if the loop completes milhout encountericy a break. As what does ammerate () do in a for loop? em merate () returns under - value Ag. What is the unsted loop? Provide on Enough. the another loop; and Jos multi di munional data like gender cor) matrices. loop inside 60. Can we use for loop with dichionaries? ig yes, how? Yer, we you very, value in dict items () to uf crate pey -value pairs.