Ans. 1 Features of python:

- 1. Free and open source: Python is freely available. It can be downloaded from python official website.

 Secondly, it is open source. It's source code is publicly available. We can download it, change it, use it and distribute it. (FLOSS)
- 2. It is high level language.
- 3. It is partable and interpreted language.
- 4. Dynamically Typed: By thon is dynamically typed. This means that the type of value is decided at runtime, not is advance.
- 5. It supports all three programming models-Procedural, Object Oriented (OOP) and functional.

| Ans-2 | Tava | Python |
|--|--------------------------------------|--------------------------------------|
| I Procedural oriented programming | y objected oriented | s) both types pop 400p |
| 2) developed by Dennis Ritchie | 2) developed by Tames Gasling | 2) developed by quado Van Romum |
| 3) Middle level language due to the use of pointers. | 3) Kigh level language | 3) High level language |
| 4) Function obviven | y object and class driven | y function, object and class driven. |
| 5) Extension - · C | gy extensionjava | s) extension - · py |
| 6) plateform dependent | 6) plateform endependent | 6) plateform independent |
| F) Keywords - 32 | +) keywords - 63 | +) Key words - 33 |
| # Hello world Program: #included state by int main() | stringl args) { | (B) print ("Hello World") |
| printf ("Hello World"); | system. aut. printla ("Hullo world); | |
| output: Hello World | output: flello world | output: Hello would |

Ans 3 Input and output formats in python.

1. input(): # single value

frample: Van = input ("Enter a no.")

2. using input with split(): Homelbyle value example 1 2, 4 = input ("Enter two no."). split()

Out put formats:

- 4. using format specifier example ? print (" 7. d %s cost %. 2 f ses "% (6;" banana" 17))
 output : 6 banana cost 17 so
- example: print ("CO3 C13 cost C23 25" format (6" "bomma" 15))
 output: 6 banana cost 14 25

A PROGRESSION

- 3. x=4 y=10 Z=2 print (x, y, Z, sep=",") >>> 4, 10, 2
- 4. f-string method:

 example: val = "Geeks"

 print of " (val) for (val) is a portal for Eval).")

 output geeks for geeks is a portal for geeks

Ans 4: Some functions in python:

- 1. id()-return the unique 1d (like, in 6 address)

 example:>>> id ("Varsha")

 >>> 140365829447504
- 2. Typelt return the class type of argument parsed. Example >>> Type (5)
 >>> (Class 'int')
- 3. max () return max value.

 example >>> max (2, 5, 4)

 >>> 5
- 4. min () return nun value example >>> min (2,54) >>> 2
- 5. eval() evaluate the expression passed.

 example >>> eval(10+10)

 >>> 20
- 6. ord() return ASCII Value example >>> Ord ('A') >>> 65
- 4. bin ()-return binary of the argument passed example >>> bin (100)
 >>> 061100100
- 8. Chr()- gutum character at that ASCII value. 9. Oct()- return octal value example >>> chr (65)

 PXample >>> (65)

 PXample >>> 0012
 - 10. Hex() return hexadecimal value example >>> hex(100) >>> 0x64