

## Python 1 - Activity

**Test below questions (Q1-Q20) in your python shell**

Q1. How to test python version in command line?

Q2. Using print() function , display your name and working city name

*Ex: Hi myself karthikeyan from chennai.*

Q3. How to use single line comment and multiline comment in python?

Q4. Write a python program

Step 1: declare a variable name called **server**, initialize value as your working operating system name.

Step 2: using **print()** function - display following message

*Hi, my working kernel is Linux.*

Q5. How to combine below 3 string values into single string?

S1="My Server Name:"

S2="SunOs"

S3="Version is 6.5"

**Note: use string concatenation operator**

Q6. How to write multiline string statements in python? (Write all possible ways)

Q7. How to use escape characters (\n\t) in python?

Q8. Using single print() function display your shell name, kernel name, login name details line by line.

**Note: use \n characters.**

Q9. How to calculate below expressions?

A)  $V = "100"$

$F = 200$

$V + F$

B)  $Size = "356\n"$

$Total = 1000.35$

$Size + Total$

Q10. How to convert int, float data types in to string type?

Q11. How to determine python data type?

Q12. What is difference between \ and \\ operator in python?

Q13. Using string repetition operator (\*) how to display lines in below format.

```
-----  
*****  
-----
```

Q14. Given variable is **port=3036**

How to validate port number range is above 3000?

(say True/False)

Q15. **name="root"**

How to test user login is root user or not?

(say True/False)

**Q16. Identify the error messages:-**

a) Fname="p1.log"

print("File name is:",FNAME)

b) print("File name is:"Fname)

c) print(File name is:Fname)

d) print ("File name is:Fname')

e) Fsize=1234

print("File name is:",Fname,"FileSize is:"FSize)

f) print("File Size is:"+Fsize)

g) F="13.4567"

print("F value is:",int(F))

**Q17. Predict the output of below codes?**

a) `s="Linux\nWinx\tSunOs\nAix\tUnix"`

`print(type(s))`

`print(s)`

b) `s1="admin"`

`s1 != "root"`

c) `Tag="Test"`

`print("Tag Name is:"+Tag+str(1)+"\n")`

`print("Tag Name is:"+Tag+str(2)+"\n")`

d) `IP='127.0.0.1'`

`port=8000`

`print("Running server name:"+IP+"\tport number is:"+str(port))`

**Q18) Say Yes/No**

a) is python dynamic type programming?

b) is python portable?

c) is python not supported winx?

d) is python not supported floating point operations?

e) is python is case sensitive language?

Q19) using **type()** function determine below types?

- a) `type(str(10+20))`
- b) `type(10+20.0)`
- c) `type("")`
- d) `type(100>200)`
- e) `type (int("46")+int(10.335))`

Q20) In python which function is used to read input from keyboard and what will be that function default return type?

\*\*\*\*\*

**Task - create a new python file and run a program**

**Q1. Write a python program (create a filename p1.py)**

Step 1: read an employee name from <STDIN> (keyboard)

read an employee ID from <STDIN> (keyboard)

read an employee Cost from <STDIN> (keyboard)

Step 2: determine input data type and display value to monitor.

**Note: understand difference between `type()` vs `print()` usages.**

**Q2. Write a python program (create a filename p2.py)**

Step 1: read an any two disk name from <STDIN>(ex: /dev/sda1,/dev/sda2)

Step 2: read an any two disk size from <STDIN>(ex: 100 200 )

Step 3: calculate sum of 2 disks.

Step 4: display individual disk name disk size to monitor.

Step 5: display total disk size to monitor.

**Q3. Write a python program (create a filename p3.py)**

STEP 1: import an os module into your local file (*import os*)

STEP 2: read a system command from <STDIN>

STEP 3: using `os.system ()` function; execute your input command in python.

**Note: system () function return value**