**Tutorial 7**

**Ques 1.** Get yourself familiar with these inbuilt functions.

**String**

<https://www.w3schools.com/python/python_ref_string.asp>

s=”Hello World”

1. s.index(g), g=’o’
2. s.find(g), g=’e’, ‘l’
3. s.len()
4. ord(c), c=’f, ‘F’

**Math**

<https://docs.python.org/3/library/functions.html>

1. min(a,b) a=5, b=-7
2. max(a,b) a=5, b=-7
3. abs(a) a= -7.2, 7.2
4. round(a,b) a=7.5673, b=3
5. pow(b,e), b=2, e=8

**Miscellaneous**

1. bin(x), x=45
2. hex(x), x=45
3. oct(x), x=45
4. sort(), p=[‘car’, ’bike’, ‘volvo’]
5. bool(x), x=0, x=1, x=45

**Ques 2.** Draw stack frame for the following recursive function ‘power’ for x=3 and n=5.

def power(x,n):

if (n==0):

return 1

a=power(x,n//2)

if (n%2==0):

return a\*a

else

return a\*a\*x

print(power(3,5))

**Ques 3.** Write the output of the following Python codes:

1. i = 50

def fan():

i = 100

return i

print(fan())

1. cc = 2

if True:

cc = 66

def helmet():

if True:

cc = 40

helmet()

print(cc)