# Naresh i Technologies, HYDERABAD, 040-23746666

# GRAND REVIEW ON CORE PYTHON

**1 Output of the following script**
```
pylist=[1,2,3,4,[5,6,7,8,[9,10,11,12,[13,14,15,16]]]]
print(pylist)
print(pylist[4][4][4][3])
```

**2 Output of the following script**
```
r = lambda q: q * 2; s = lambda q: q * 3
x = 3; x = r(x);x = s(x);x = r(x)
print (x,x)
```

**3. Output of the following script**
```
var1 = 'Hello NareshIT!'
var2 = "NareshITHYD"
print("var1[0]: ", var1[0])
print("var2[1:5]: ", var2[1:5])
```

**4 What is the value of this expression:** bin(10-2)+bin(12^4)
**5 What is the output of** print(['hello', 'morning'][bool(True)])
**6 Count the Number of Vowels in a String**
**7 Calculate the Number of Digits and Letters in a String**
**8 Check a Number is a Prime Number or Not**

**9 Output of the following**
```
for i in range(10):
    if i == 5:
        break
    else:
        print(i)
else:
    print("Here")
```
**10 Output of the statement is:** print('my_string'.isidentifier())
**11 What is the output of the code shown below?**
```
l=[2, 3, [4, 5]]
l2=l.copy()
l2[0]=88
print(l)
print(l2)
```
**12 What is the output of the following code?**
```
l1=[10, 20, 30]
l2=[-10, -20, -30]
l3=[x+y for x, y in zip(l1, l2)]
print(l3)
```

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**13 What is the output of the code shown below?**
```
l1=[1,2,3]
l2=[4,5,6]
l3=[7,8,9]
for x, y, z in zip(l1, l2, l3):
        print(x, y, z)
```

**14 What is the output of the code shown below?**
```
a={}
print(a.fromkeys([1,2,3],"check"))
```
**15 What is the output of the following code?**
```
a={1,2,3}
b=a.add(4)
print(b)
```
**16 What is the output of the following piece of code?**
```
a=(2,3,1,5);a.sort();print(a)
```

**17 What is the output of the following piece of code?**
```
a=list((45,)*4)
print((45)*4)
print(a)
```

**18 What is the output of the following piece of code?**
```
print([[i+j for i in "abc"] for j in "def"])
```

**19 What is the output of the snippet of code shown below?**
```
x=set('abcde')
y=set('xyzbd')
x.difference_update(y)
print(x)
print(y)
```
**20 Python Program to Reverse a Given Number**
**21 Python Program to Find the Sum of Digits in a Number**
**22 Python Program to Check if a Number is a Palindrome**
**23 Python Program to Print an Inverted Star Pattern**
```
*****
 ****
  ***
   **
    *
```

**24 Python Program to Swap the First and Last Value of a List**
**25 Print the multiplication table for given number with specific range[rows]**