Q1. What is the difference between list and tuples?

Q2. What are the key features of Python?

Q3. What is the difference between deep and shallow copy?

Q4. How can the ternary operators be used in python?

Q5. How is memory managed in Python?

Q6. What is the usage of help() and dir() function in Python?

Q7. Whenever Python exits, why isn't all the memory de-allocated?

Q8. What are negative indexes and why are they used?

Q9. What is the difference between range & xrange?

Q10. Which one of these is floor division?

Section 2 :-   Programming Analyzation

1) Find the output of the following code:

```
sum = 0
for i in range(12,2,-2):
    sum+=i
print sum
```

2) Find the output of the following code:

```
n=50
i=5
s=0
while i<n:
    s+=i
    i+=10
print "i=",i
print "sum=",s
```

3) Find the output of the following code:

```
List=[1,6,8,4,5]
print List[-4:]
```

4) How many times are the following loops executed?

```
i=100
while(i<=200):
    print i
    i+=20
```

5) Find the output of the following code:

```
L=[100,200,300,400,500]
L1=L[2:4]
print L1
L2=L[1:5]
print L2
L2.extend(L1)
print L2
```

6) Predict the behavior of the code:

```
List=list("String")
print List
```

Section 3 :- Problem solving