# Assignment - 14

1A.

```
def div_by_7_gen(n):
    for i in range(0,n):
        if (i%7==0):
            yield i
        i += 1
numbers=div_by_7_gen(21)
for j in range(0,3):
    print(next(numbers))
    j = j+1
```

2A.

```
str = "New to Python or choosing between Python 2 and Python 3? Read Python 2 or Python 3."
list_str = str.split(' ')
dict1={}
count=0
for str1 in list_str:
    if str1 in dict1.keys():
        count=dict1[str1]
        count=count+1
        dict1.update({str1:count})
    else:
        dict1.update({str1:1})
```

```
for d in sorted(dict1.keys()):
   print(d,':',dict1[d])
```

3A.

```
class Person:
   def getGender(self):
      print("Parent class")
class Male(Person):
   def getGender(self):
      print('Male')
class Female:
   def getGender(self):
      print('Female')


male=Male()
male.getGender()
female=Female()
female.getGender()
```

4A.

```
l1 = ['I','You']
l2 = ['Play','Love']
l3 = ['Hockey','Football']
lines1=[]
lines2=[]
for p1,p2,p3 in zip(l1,l2,l3) :
```

```
    line = F"{p1} {p2} {p3}"
    lines1.append(line)
for p1,p2,p3 in zip(l2,l1,l3) :
    line = F"{p1} {p2} {p3}"
    lines.append(line)
print(lines1,lines2)
```

5A.

```
import zlib
s=b'hello world!hello world!hello world!hello world!'
comp = zlib.compress(s)
print(comp)
print(zlib.decompress(comp))
```

6A.

```
def bin_search(ele):
    for i in range(0,len(list_str)-1):
        #print(list_str[i],' ',ele)

        if(list_str[i]==ele):
            print('Index of ',ele,' is' ,list_str.index(ele))
print(' '.join(list_str))
bin_search('New')
```