

ASSIGNMENT 5

Question 1.

```
print("Enter numbers : ")
mylist,factlist = [int(i) for i in input().split(' ')], []
for item in mylist:
    temp = 1
    for i in range(1,item+1):
        temp = temp*i
    factlist.append(temp)
print(factlist)
```

Question 2.

```
mylist = [int(i) for i in input().split(',') ]
mytuple = tuple(mylist)
print(mylist, mytuple)
```

Question 3.

```
def myfun(d):
    return int(((2*50*d)/30)**(1/2))
inp,anslist = input().split(',') , []
for item in inp:
    anslist.append(myfun(int(item)))
print(anslist)
```

Question 4.

```
inp = [i for i in input().split(',') ]
inp.sort()
print(inp)
```

Question 5.

```
inp,ans = [i for i in input().split(',')], []
for item in inp:
    if(int(item,2)%5==0):
        ans.append(int(item))
print(ans)
```

Question 6.

```
sum=0
while(True):
    a =input()
    if(a):
        new = a.split()
        if(new[0]=='D'):
            sum += int(new[1])
        else:
            sum -=int(new[1])
    else:
        break
print("Balance : ",sum)
```

Question 7.

```
import operator
inp = []
while(True):
    a = input()
    if(a):
        new = tuple(a.split(','))
        inp.append(new)
    else:
        break
inp.sort()
print(inp)
```

Question 8.

```
x,y = 0,0
while(True):
    a = input()
    if(a):
        new = a.split()
        if(new[0]=='UP'):
            y += int(new[1])
        if(new[0]=='DOWN'):
            y -= int(new[1])
        if(new[0]=='LEFT'):
            x -= int(new[1])
        if(new[0]=='RIGHT'):
            x += int(new[1])
    else:
        break
print(int((x**2 + y**2)**(1/2)))
```

Question 9.

```
inp = input()
inplist = inp.split()
new = []
for item in inplist:
    if(item not in new):
        new.append(item)
new.sort()
for item in new:
    print(item,":",inplist.count(item))
```