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Paper MPL

Q1

Suppose You have a list

```
a=[[4,5,9], [1,5,3], [0,8,12], [3,1,9]]
```

Write a program that finds the list whose sum of elements is highest

```
num = [[4,5,9], [1,5,3], [0,18,12], [3,1,9]]  
print(max(num, key=sum))
```

Q2 write a program that takes a string from the user and then print  
anew string by changing lowercase letter to upper case letter

```
Python 3 program to count the uppercase,  
# lowercase, special characters  
# and numeric values  
  
# Function to count uppercase, lowercase,  
# special characters and numbers  
def Count(str):  
    upper, lower, number, special = 0, 0, 0, 0  
    for i in range(len(str)):  
        if str[i] >= 'A' and str[i] <= 'Z':  
            upper += 1  
        elif str[i] >= 'a' and str[i] <= 'z':  
            lower += 1  
        elif str[i] >= '0' and str[i] <= '9':  
            number += 1  
        else:  
            special += 1  
    print('Upper case letters:', upper)  
    print('Lower case letters:', lower)  
    print('Number:', number)  
    print('Special characters:', special)
```

```
# Driver Code
str = "#GeeKs01fOr@gEEks07"
Count
```

Q3 PRINT IQRA using 16 bit Unicode (hint escape character)

```
>>> X = I ./I0049.
```

```
>>> PRINT X
```

```
>>> X = Q ./Q0051.
```

```
>>> PRINT X
```

```
>>> X = R ./R0052.
```

```
>>> PRINT X
```

```
>>> X = A ./A0041.
```

```
>>> PRINT X
```

```
print('\u0420\u043e\u0441\u0441\u0438\u0444')
print(u'\u0420\u043e\u0441\u0441\u0438\u0444')
```

Q4 WRITE A PROGRAM THAT INPUT ID 5 TIMES AND DETERMINES HOW MANY STUDENT ARE VALID

This program shows various identities

```
str1 = "INU"
print(id(str1))
```

```
str2 = "INU"
print(id(str2))
```

```
# This will return True
print(id(str1) == id(str2))
```

```
# Use in Lists
list1 = ["aakash", "priya", "abdul"]
print(id(list1[0]))
print(id(list1[2]))
```

```
# This returns false
print(id(list1[0])==id(list1[2]))
```

