19.08.24

HOME TASK
2D ARRAY

#1

```
row=int(input("Enter the no of rows:"))
col=int(input("Enter the no of columns:"))
array=[]
for i in range(row):
    l=list(map(int,input().split()))
    array.append(l)
print("Average grades for each students")
for s in array:
    average=sum(s)/len(s)
    print(f"(Student {array.index(s)+1} : {average:.2f}")
print("Highest grade in each Subject : ")
sub=len(array[0])
for i in range(sub):
    grade=max(array[j][i] for j in range(len(array)))
    if i==0:
        print(f"Maths : {grade}")
    elif i==1:
        print(f"Science : {grade}")
    else:
        print(f"English : {grade}")
Sum=0
tot=0
for i in array:
    Sum+=sum(i)
    tot+=len(i)
    avg=Sum/tot
print(f"Overall class average : {avg:.2f}")
print()
```

#2

```
row=int(input())
col=int(input())
product=[]
for i in range(row):
    l=list(map(int,input().split()))
    product.append(l)
```

```
total=[sum(r) for r in product]
print("Total quantities of each products : ")
for i,j in enumerate(total):
    print(f"Product{i+1} : {j}")
pro=int(input("Check : "))

maximum=max(product[pro-1])
section=product[pro-1].index(maximum)+1
print(f"Section with highest quality for product{pro} : Section{chr(64+section)}")

lowest=min(total)
l_index=total.index(lowest)+1
print(f"Product with the lowest quality : Product{l_index}")
```