

Q1

The screenshot displays two windows from a Windows operating system.

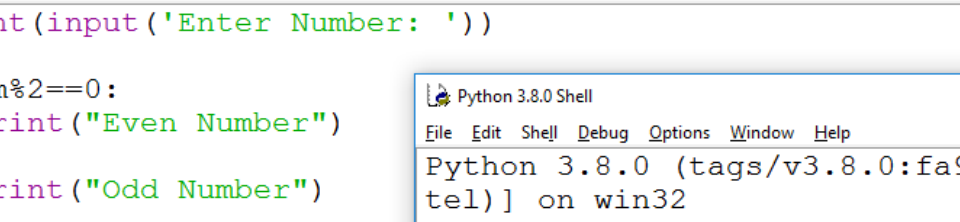
The top window, titled "Q1.py - C:\Users\muham\Desktop\ASSIGNMENT\Q1.py (3.8.0)", contains the following Python code:

```
print('-----')  
print('\t\t\tMARK SHEET APP')  
print('-----\n')  
print('Enter your marks to generate marksheet')  
  
Maths=float(input('Mathematics Marks(Total=100): '))  
Physics=float(input('Physics Marks(Total=100): '))  
Islamiat=float(input('Islamiat Marks(Total=100): '))  
English=float(input('English Marks(Total=100): '))  
Chemistry=float(input('Chemistry Marks(Total=100): '))  
totalMarks=500  
  
n=Maths+Physics+Islamiat+English+Chemistry  
Percentage=(n/totalMarks)*100  
  
if Percentage>=90:  
    print("A-One Grade",Percentage,"%")  
elif Percentage>=80:  
    print("A Grade",Percentage,"%")  
elif Percentage>=70:  
    print("B Grade",Percentage,"%")  
elif Percentage>=60:  
    print("C Grade",Percentage,"%")  
elif Percentage>=50:  
    print("D Grade",Percentage,"%")  
else:  
    print("Fail",Percentage,"%")
```

The bottom window, titled "Python 3.8.0 Shell", shows the execution of the script. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The command prompt shows the script being run from the directory "C:\Users\muham\Desktop\". The output of the program is displayed below the prompt:

```
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 1  
tel)] on win32  
Type "help", "copyright", "credits" or "license()  
>>>  
===== RESTART: C:\Users\muham\Desktop\I  
  
MARK SHEET APP  
  
Enter your marks to generate marksheet  
Mathematics Marks(Total=100): 100  
Physics Marks(Total=100): 94  
Islamiat Marks(Total=100): 85  
English Marks(Total=100): 82  
Chemistry Marks(Total=100): 95  
A-One Grade 91.2 %  
>>>
```

Q2



```
Q2.py - C:\Users\muham\Desktop\ASSIGNMENT\Q2.py (3.8.0)
File Edit Format Run Options Window Help

num=int(input('Enter Number: '))

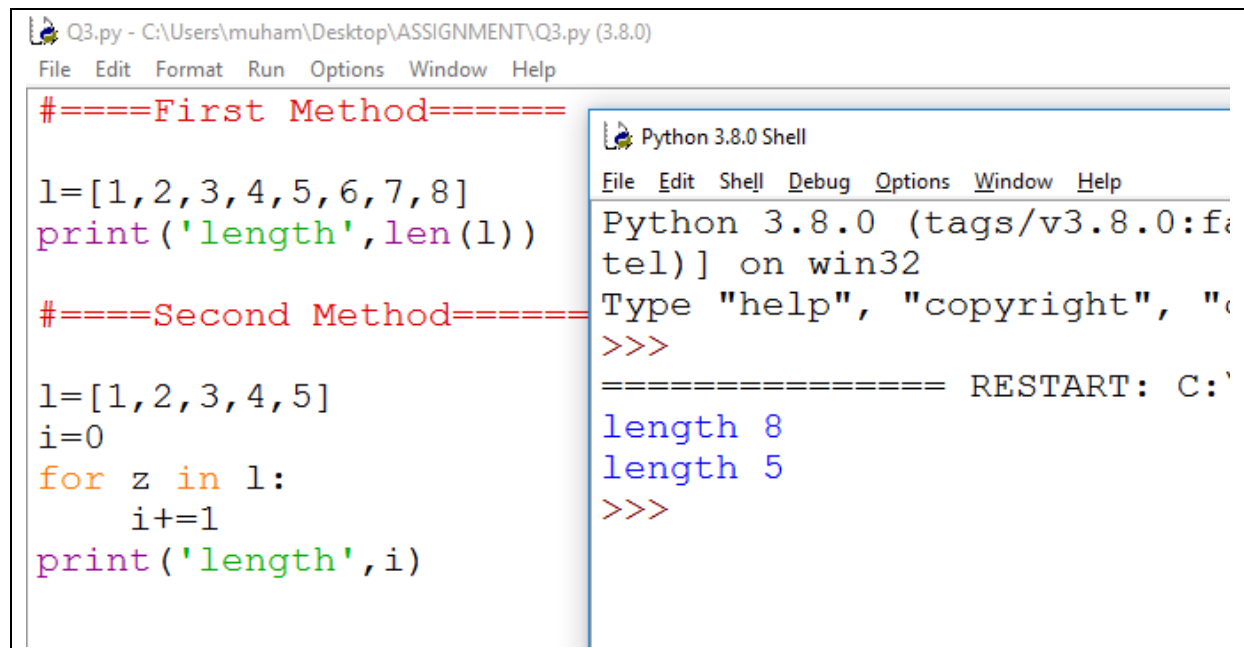
if num%2==0:
    print("Even Number")
else:
    print("Odd Number")
```

Python 3.8.0 Shell

File Edit Shell Debug Options Window Help

Python 3.8.0 (tags/v3.8.0:fa919fd, (tel)] on win32  
Type "help", "copyright", "credits">>>  
===== RESTART: C:\Users\muham\AppData\Local\Microsoft\WindowsApps\PythonSoftwareFoundation.Python.3.8\_...>>>  
Enter Number: 564  
Even Number  
>>>  
===== RESTART: C:\Users\muham\AppData\Local\Microsoft\WindowsApps\PythonSoftwareFoundation.Python.3.8\_...>>>  
Enter Number: 765  
Odd Number  
>>> |

### Q3



```
Q3.py - C:\Users\muham\Desktop\ASSIGNMENT\Q3.py (3.8.0)
File Edit Format Run Options Window Help

#====First Method=====

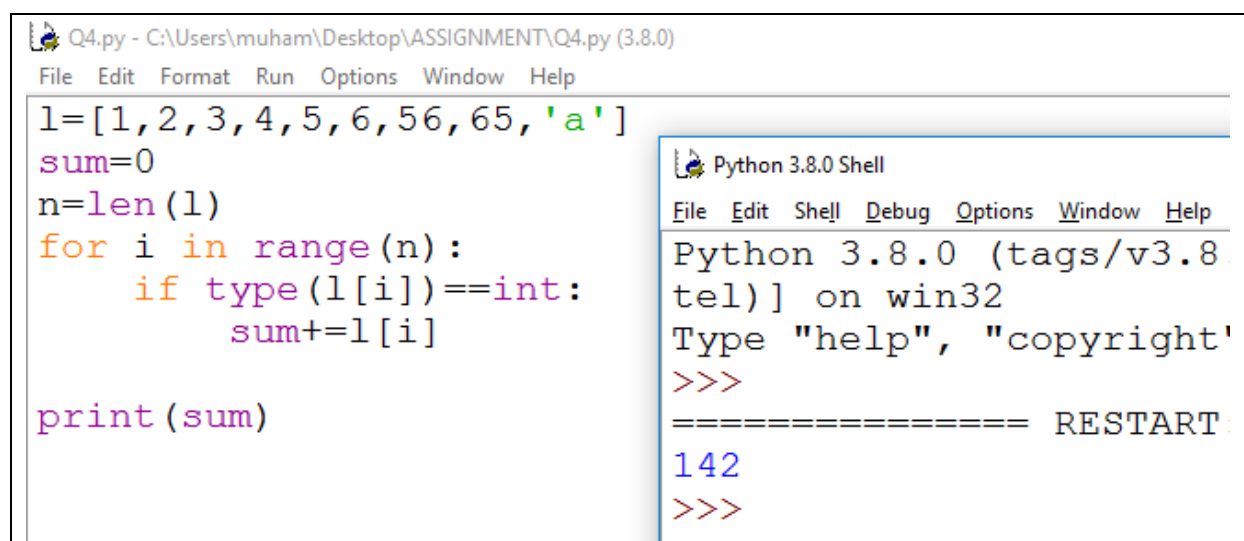
l=[1,2,3,4,5,6,7,8]
print('length',len(l))

#====Second Method=====

l=[1,2,3,4,5]
i=0
for z in l:
    i+=1
print('length',i)
```

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa
tel)] on win32
Type "help", "copyright", "
>>>
===== RESTART: C:
length 8
length 5
>>>
```

### Q4



```
Q4.py - C:\Users\muham\Desktop\ASSIGNMENT\Q4.py (3.8.0)
File Edit Format Run Options Window Help

l=[1,2,3,4,5,6,56,65,'a']
sum=0
n=len(l)
for i in range(n):
    if type(l[i])==int:
        sum+=l[i]

print(sum)
```

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.
tel)] on win32
Type "help", "copyright"
>>>
===== RESTART:
142
>>>
```

## Q5

```
Q5.py - C:\Users\muham\Desktop\ASSIGNMENT\Q5.py (3.8.0)
File Edit Format Run Options Window Help

#=====First Method=====
L=[10,20,30,56,45,87,78]
L.sort()
print("Largest Number is: ",L[-1])

#=====Second Method=====
L=[12,45,32,98,67]
max=L[0]
for a in L:
    if a>max:
        max=a
print("Largest Number is: ",max)
```

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8
tel)] on win32
Type "help", "copyright
>>>
===== RESTART
Largest Number is: 87
Largest Number is: 98
>>> |
```

## Q6

```
Q6.py - C:\Users\muham\Desktop\ASSIGNMENT\Q6.py (3.8.0)
File Edit Format Run Options Window Help

a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]
for i in a:
    if i < 5:
        print(i)
```

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:
tel)] on win32
Type "help", "copyright",
>>>
===== RESTART: C
1
1
2
3
>>>
```