

Problem 1

In [20]:

```
n,m = 17, 18
```

In [14]:

```
n // 10 + n % 10
```

Out[14]:

8

In [15]:

```
n % 2 + m % 2
```

Out[15]:

1

In [16]:

```
(m+n) // 2
```

Out[16]:

17

In [17]:

```
(m+n)/2.0
```

Out[17]:

17.5

In [18]:

```
int(0.5*(m+n))
```

Out[18]:

17

In [19]:

```
int(round(0.5*(m+n)))
```

Out[19]:

18

Problem 2

In [24]:

```
s,t="Hello","World"
```

In [25]:

```
len(s)+len(t)
```

Out[25]:

10

In [27]:

```
s[1] + s[2]
```

Out[27]:

'el'

In [29]:

```
s[len(s)//2]
```

Out[29]:

'l'

In [30]:

```
s + t
```

Out[30]:

'HelloWorld'

In [31]:

```
t + s
```

Out[31]:

'WorldHello'

In [32]:

```
s * 2
```

Out[32]:

'HelloHello'

Problem 3-2

In [43]:

```
def func(t):  
    return v0*(-0.5)*g*t
```

Problem 3-4

In [45]:

```
v0 = 100  
g = 32  
t = 3.2  
d = 50
```

In [47]:

```
h = - 0.5 * g * t ** 2 + v0 * t + d
```

In [48]:

```
print(h, ' feet')
```

206.15999999999997 feet