

Chapter 7 Discussion

Exercise #1

```
def mult(a, b):  
    if isinstance(a, (int, float)) and isinstance(b, (int, float))  
        return a * b  
    else  
        Put "Invalid" to output  
        return 0
```

```
def div(a, b)  
    if isinstance(a, (int, float)) and isinstance(b, (int, float))  
        if b != 0  
            return a / b  
        else  
            Put "Invalid (division by zero)" to output  
            return 0  
    else  
        Put "Invalid" to output  
        return 0
```

```
def Main()  
    num1 = float(input("Enter the first number: "))  
    num2 = float(input("Enter the second number: "))  
  
    mult_result = mult(num1, num2)  
    div_result = div(num1, num2)  
  
    Put "Multiplication result: " to output  
    Put mult_result to output  
    Put "Division result: " to output  
    Put div_result to output
```

```
if __name__ == "__main__":  
    Main()
```

Exercise #2

Main():

```
currentMonth = 6
currentYear = 2021
birthMonth = integer
birthYear = integer
currentMonth = 6
currentYear = 2021
```

Repeat:

```
Put "Enter your birth month: " to output
Input birthMonth
Put "Enter your birth year: " to output
Input birthYear
```

```
If (birthMonth < 1 or birthMonth > 12 or birthYear > currentYear)
    Put "Invalid entry. Please enter a valid birth month and year." to output
else
    Exit Repeat
```

```
age = ageCalc(birthMonth, birthYear, currentMonth, currentYear)
```

```
Put "The user is " + age + " years old." to output
```

ageCalc(birthMonth, birthYear, currentMonth, currentYear):

```
if (currentMonth > birthMonth) or (currentMonth == birthMonth and currentYear >=
birthYear):
```

```
    years = currentYear - birthYear
else
    years = currentYear - birthYear - 1
```

```
return years
```