**Summer Job Program**

**Problem/Instructions**

Write a program that calculates a weekly wage, based on an hourly payrate and how many hours were worked; then amounts for various categories of spending need calculated, along with how much of the weekly pay is leftover.

* Tax = 15%
* Shopping = 20%
* Entertainment = 10%
* Savings = 25%
* Remainder = 30% (or you could subtract to find what’s left)

**Considerations/Planning**

Recall that an algorithm is the method for solving a problem. Think of it as the set of steps that you need to take to come up with a solution. Some considerations that you should think about:

**What is an appropriate title and description for this program?**

Summerjob

Calculates the wages and spending from the users job

**What data needs to be collected from the user?**

First name

Last name

Payrate

Hours worked

**What calculations need to be done? (And in what order? Does it matter?)**

Payrate\*hrs=wages

Wages\*.15=tax

Wages\*.2=shopping

Wages\*.1=entertainment

Wages\*.25=savings

Wages\*.3=remainder

**What is a mathematical example I can work through (and later used to test) these calculations to ensure they are correct?**

$10 per hr

10 hrs

Wages $100

Taxes $15

Shopping $20

Entertainment $10

Savings $25

Remainder $30

**What variables and constants would be needed for this program, as well as appropriate names for them?**

First name, fname

Last name, lname

Payrate, payrate

Hours worked, hrs

**What kind of output do we want? How should it be formatted?**

Name:

Wages:

Taxes:

Etc. in a list

**Algorithm**

Plan the algorithm here (exactly what your program needs to do and in what order each step needs to happen).

Collect inputs

Calculate wages

Output

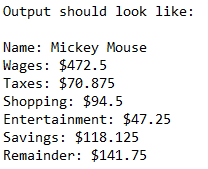
**Code**

Once the algorithm is complete, then create a new Project called 🡪 **SummerJob1** and paste the algorithm above in the form of comments into the main function of your code.

**Test Your Program**

Test your program with the following input data and verify the output shown below:

|  |  |
| --- | --- |
| Input: |  |
| First name | Mickey |
| Last name | Mouse |
| Payrate | $13.50 |
| Hours worked | 35 hours |



**Review Your Code**

Review your code to make sure it:

* Uses appropriate comments to document parts of program
  + Is indented properly
  + Makes good use of white space (leave blank lines between sections)