

CIS 40 - Assignment 6

You can work with a partner for this assignment.

If you choose to work with a partner, make sure both people have time to work together. If one person does all the work, then the non-participating partner will not be prepared for the exam.

Write a Python script to let a user pay for a purchase.

- Import the `random` module, which has functions that generate a random number for us: `from random import *`
- Write a function called `getPrice` that:
 - generates a purchase price, which is a random number between 0 and 100: `price = uniform(0, 100)`
Note: you can change the price upper limit by changing 100 to another value.
 - prints the price, rounded to 2 digits after the decimal point, and with a text explanation
 - returns the price
- Write a function called `calcPayment` that:
 - prompts the user and reads in the payment.
 - depending on what the user enters for the payment, prints one of these output:
 - If the payment is more than or equal to the price, print the change
 - If the payment is less than the price, print an appropriate comment and print the missing payment

Example program output:

Payment okay:

```
The price is: $52.75
Enter your payment: 60
Here's your change of $7.25
```

Payment too small:

```
The price is: $87.33
Enter your payment: 50
That's not enough. You need $37.33 more
```

Extra credit (2pts):

Write additional code to catch the 2 scenarios when the user enters an invalid payment:

```
The price is: $40.77
Enter your payment: fifty dollars
You must enter a numeric value
```

```
The price is: $55.57
Enter your payment: -10
Payment must be a positive value larger than price
```