```
def randInt(min, max):
   Returns random integer between a given range
   return random.randint(min, max)
def randOper():
   Returns a random selection of operators.
   return random.choice(['+', '-', '*'])
def generateProblem(n1, n2, oper):
   Generates a problem and its answer, to be given in the quiz game.
   prob = f''\{n1\} \{oper\} \{n2\}''
   if oper == '+': ans = n1 + n2
   elif oper == '-': ans = n1 - n2
   else: ans = n1 * n2
   return prob, ans
def math_quiz():
   Main function to play the game. Generates random numbers, operators, and question using them.
   s = 0
   t_q = 5
   print("Welcome to the Math Quiz Game!")
   print("You will be presented with math problems, and you need to provide the correct answers.")
   for _ in range(t_q):
       try:
           n1 = randInt(1, 10); n2 = randInt(1, 6); o = randOper()
            PROBLEM, ANSWER = generateProblem(n1, n2, o)
           print(f"\nQuestion: {PROBLEM}")
           useranswer = input("Your answer: ")
            useranswer = int(useranswer)
           if useranswer == ANSWER:
               print("Correct! You earned a point.")
               s += -(-1)
               print(f"Wrong answer. The correct answer is {ANSWER}.")
       except Exception as e:
            print("There was an error.\n"+str(e))
                                                            2023-11-12 11:39:09.821 [info] > git merge code_cleanup [11ms]
```

## https://github.com/saracoglumert/DSSS-HW2

```
ass TestMathGame(unittest.TestCase):
  def test_function_A(self):
      # Test if random numbers generated are within the specified range
      min val = 1
      max val = 10
      for _ in range(1000): # Test a large number of random values
          rand num = randInt(min val, max val)
          self.assertTrue(min_val <= rand_num <= max_val)</pre>
  def test_function_B(self):
      for _ in range(1000):
           output = randOper()
           self.assertTrue(output in ['+', '-', '*'])
      pass
  def test_function_C(self):
          test_cases = [
              (5, 2, '+', '5 + 2', 7),
              (4, 3, '-', '4-3', 1),
              (6, 8, '*', '6 + 8', 48),
          for num1, num2, operator, expected_problem, expected_answer in test_cases:
              tmp_prob, tmp_ans = generateProblem(num1, num2, operator)
              self.assertTrue(tmp ans == expected answer and tmp prob == expected problem)
```

## Used Github extension on VSCode

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```
if __name__ == "__main__":
   math quiz()
```

print(f"\nGame over! Your score is: {s}/{t\_q}")

```
2023-11-12 11:39:09.828 [info] > git config --get commit.template [7ms]
2023-11-12 11:39:09.828 [info] > git for-each-ref --format=%(refname)%0%(upstream:short)%0%(objectname)%0%(upstream:track)%0%(upstream:remotename)
%00%(upstream:remoteref) --ignore-case refs/heads/code_cleanup refs/remotes/code_cleanup [6ms]
```