

Thursday Sep 12, 2024

In-class Handout

COSC 101C Intro to Computing I

Prof. Forrest Davis

Name:

Discuss and complete the following questions with the person nearest you. You **may** be asked to share your thoughts with the class.

1. Using only indexing print the following expressions using this list `L = [-12, 'hello', ['cats are so great'], '1234', -5]`

```
-5  
hello  
'cats are so great'  
2
```

```
L = [-12, 'hello', ['cats are so great'], '1234', -5]  
print(L[-1])  
print(L[1])  
print(L[2])  
print(L[-2][1])
```

2. The following program is supposed to print a recipe for making cupcakes. Find and fix the errors so the program works properly.

```
def main() -> None:
```

```
dozen = print("How many dozen cupcakes do you want?")  
  
print("Ingredients:")  
  
print("*", int(dozen), "cups flour")  
  
print("*", int(dozen) * 1//4, "tsp salt")  
  
print("*", int(dozen), "tsp baking powder")  
  
print("*", int(dozen) * 1//4, "cups butter")  
  
print("*", int(dozen) * 3//8, "cups sugar")  
  
print("*", int(dozen), "eggs")  
  
print("*", int(dozen) * 1//2, "cups milk")  
  
print("Directions:")  
  
print("1. Preheat oven to 375°F.")  
  
print("2. Put liners in" + str(int(dozen) * 12) + "muffin cups.")  
  
print("3. Cream butter and sugar until light and fluffy. Beat in eggs one at a ti  
print("4. Combine flour", "salt", "and baking soda.")
```

```
print("5. Add flour mixture and milk to butter and sugar; beat well.")
print("6. Divide batter evenly among" + str(int(dozen) * 12) + "muffin cups.")
print("7. Bake for 18 minutes or until a toothpick comes out clean. Cool in pan
```

```
main()
```

```
def main() -> None:
    dozen = int(input("How many dozen cupcakes do you want?"))
    print("Ingredients:")
    print("*", dozen, "cups flour")
    print("*", dozen * 1/4, "tsp salt")
    print("*", dozen, "tsp baking powder")
    print("*", dozen * 1/4, "cups butter")
    print("*", dozen * 3/8, "cups sugar")
    print("*", dozen, "eggs")
    print("*", dozen * 1/2, "cups milk")
    print("Directions:")
    print("1. Preheat oven to 375°F.")
    print("2. Put liners in " + str(dozen * 12) + " muffin cups.")
    print("3. Cream butter and sugar until light and fluffy. Beat in eggs one at a ti
    print("4. Combine flour, salt, and baking soda.")
    print("5. Add flour mixture and milk to butter and sugar; beat well.")
    print("6. Divide batter evenly among" + str(dozen * 12) + "muffin cups.")
    print("7. Bake for 18 minutes or until a toothpick comes out clean. Cool in pan
```

```
main()
```