Natalie Pronk

CMPR 114 Professor Huynh

HW₂

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Project 1

```
num = int(input('Please enter a number 1-12: '))

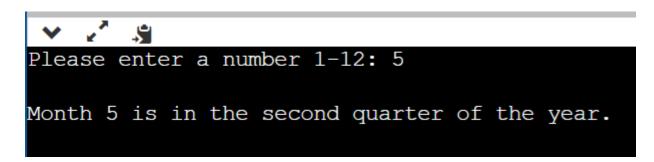
if num >=1 and num <= 3:
    print("\nMonth", num,"is in the first quarter of the year.")

elif num >=4 and num <= 6:
    print("\nMonth", num,"is in the second quarter of the year.")

elif num >=7 and num <= 9:
    print("\nMonth", num,"is in the third quarter of the year.")

elif num >=10 and num <= 12:
    print("\nMonth", num,"is in the fourth and last quarter of the year.")

else:
    print("\nError: Please enter a number 1 - 12")</pre>
```



Project 2

```
print("Time to get ready for a cookout!")
hdpkg = int(10) #hot dogs per package
hdbun = int(8) #hot dog buns per package

people = int(input("\nHow many people will be attending? : "))
hotDogPerPerson = int(input("Please enter how many hot dogs will be given to each person: "))
hotDogs = int(hotDogs/enterperson*people) #required hot dogs
reqPkg = int(hotDogs/hdpkg) #required hot dog packages
reqBun = int(hotDogs/hdbun) #required hot dog bun packages

print("\nTo make", hotDogs,"hot dogs, you will need", reqPkg, "packages of hot dogs and", reqBun, "packages of buns.")
hotDogsLeft = hotDogs % hdpkg #remaining number of hotdogs left in the package
bunsLeft = hotDogs % hdbun #remaining number of hotdogs left in the package

print("You will have", hotDogsLeft, "hot dogs left and", bunsLeft, "hot dog buns left from the packages.")
```

```
Time to get ready for a cookout!

How many people will be attending?: 250

Please enter how many hot dogs will be given to each person: 2

To make 500 hot dogs, you will need 50 packages of hot dogs and 62 packages of buns. You will have 0 hot dogs left and 4 hot dog buns left from the packages.
```

Project 3

```
print("Thank you for choosing to purchase from our company!")

price = float(39.00) #price per package

packages = int(inpu*("\nPlease enter the amount of software packages you will be purchasing: ")) #packages purchased

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14* if packages >= 0 and packages <= 9:

total = price * packages

print("\nYour total will be $", round(total,2))

print("You were not elligible for a discount. Thank you for your purchase!")

18* elif packages >= 10 and packages <= 19:

total = (price * packages) *.9

print("You received a 10% off discount, thank you for your purchase!")

22* elif packages >= 20 and packages <= 49:

total = (price * packages) *.8

print("\nYour total will be $", round(total,2))

print("You received a 20% off discount, thank you for your purchase!")

26* elif packages >= 50 and packages <= 99:

total = (price * packages) *.7

print("You received a 30% off discount, thank you for your purchase!")

27* print("You received a 30% off discount, thank you for your purchase!")

28* print("You received a 30% off discount, thank you for your purchase!")

29* print("You received a 40% off discount, thank you for your purchase!")

30* elif packages >= 100:

total = (price * packages) *.6

print("You received a 40% off discount, thank you so much for your purchase!")

34* else:

35* print("Error calculating your total. Please enter a valid number of packages.")
```

