

**Homework #6**

**01286121 Computer Programming**

**Software Engineering Program,**

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By

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1.

Code:

valid = False

hr24, min24 = 0, 0

while valid == False:

hr24, min24 = input("Please enter a 24 hr format time: ").split(":")

hr24, min24 = int(hr24), int(min24)

if 0 > hr24 or hr24 > 24 or 0 > min24 or min24 > 60:

print("Invalid time.")

else:

valid = True

def time\_24\_to\_12\_hr(hr, min):

if hr < 12:

ap = "AM"

else:

ap = "PM"

if hr == 0:

hr12 = 12

elif hr == 12:

hr12 = 12

elif 24 > hr > 12:

hr12 = hr - 12

elif hr == 24:

hr12 = 0

else:

hr12 = hr

print(f"{hr12}:{min:02d} {ap}")

time\_24\_to\_12\_hr(hr24, min24)

Result:



2.  
Code:

import turtle

month = int(input("Please input a month (Month number): "))

year = 2025

month\_days = {

1: 31, 2: 28, 3: 31, 4: 30, 5: 31, 6: 30,

7: 31, 8: 31, 9: 30, 10: 31, 11: 30, 12: 31

}

month\_name = {

1: "January", 2: "February", 3: "March", 4: "April", 5: "May", 6: "June",

7: "July", 8: "August", 9: "September", 10: "October", 11: "November", 12: "December"

}

name = month\_name[month]

days = month\_days[month]

offset = 2

target = month

total\_days = offset

for m, d in month\_days.items():

if m == target:

break

total\_days += d

month\_offset = total\_days % 7

rows = ((days + month\_offset - 1) // 7) + 1

cell\_w = 60

cell\_h = 50

width = 7 \* cell\_w

height = (rows + 2) \* cell\_h

def draw\_calendar():

turtle.pd()

for \_ in range(2):

turtle.forward(width)

turtle.right(90)

turtle.forward(height)

turtle.right(90)

for i in range(1, rows + 2):

turtle.penup()

turtle.goto(-width//2, height//2 - i\*cell\_h)

turtle.pendown()

turtle.forward(width)

for i in range(1, 7):

turtle.penup()

turtle.goto(-width//2 + i\*cell\_w, height//2 - cell\_h)

turtle.pendown()

turtle.goto(-width//2 + i\*cell\_w, -height//2)

def add\_info():

turtle.penup()

turtle.goto(0, height//2 - cell\_h + 10)

turtle.write(f"{name} {year}", align="center", font=("Arial", 24, "bold"))

days\_name = ["Mo", "Tu", "We", "Th", "Fr", "Sa", "Su"]

for i, d in enumerate(days\_name):

cx = -width//2 + i\*cell\_w + cell\_w/2

cy = height//2 - 2\*cell\_h + 10

turtle.penup()

turtle.goto(cx, cy)

turtle.write(d, align="center", font=("Arial", 14, "normal"))

day = 1

for r in range(rows):

for c in range(7):

if r == 0 and c < month\_offset:

continue

if day > days:

return

x = -width//2 + c\*cell\_w + 6

y = height//2 - (r+3)\*cell\_h + 12

turtle.penup()

turtle.goto(x, y)

turtle.write(str(day), font=("Arial", 14, "normal"))

day += 1

turtle.speed(0)

turtle.hideturtle()

turtle.penup()

turtle.goto(-width//2, height//2)

draw\_calendar()

add\_info()

turtle.done()

Result:

A calendar with numbers and days

AI-generated content may be incorrect.

3.  
Code:

number = input("Enter a number: ")

units = ["", "one", "two", "three", "four", "five", "six", "seven", "eight", "nine"]

teens = ["ten", "eleven", "twelve", "thirteen", "fourteen", "fifteen",

"sixteen", "seventeen", "eighteen", "nineteen"]

tens = ["", "", "twenty", "thirty", "forty", "fifty",

"sixty", "seventy", "eighty", "ninety"]

def read(num):

inum = int(num)

if inum == 0:

return "zero"

words = []

if inum >= 100:

words.append(units[inum // 100] + " hundred and")

inum %= 100

if inum > 0:

words.append("")

if 10 <= inum <= 19:

words.append(teens[inum - 10])

else:

if inum >= 20:

tens\_part = tens[inum // 10]

unit\_part = units[inum % 10]

if unit\_part:

words.append(f"{tens\_part}-{unit\_part}")

else:

words.append(tens\_part)

elif inum > 0:

words.append(units[inum])

to\_print = []

for w in words:

if w:

to\_print.append(w)

return " ".join(to\_print)

num = int(number)

if 0 <= num <= 999:

print(read(number))

else:

print("I don't know")

Result:

A computer screen shot of a black screen

AI-generated content may be incorrect.

4.

Code:

money = int(input("Input your amount of money: "))

thou\_note = 0

five\_hund\_note = 0

one\_hund\_note = 0

fifty\_note = 0

twenty\_note = 0

ten\_coin = 0

five\_coin = 0

two\_coin = 0

one\_coin = 0

while money > 0:

if money >= 1000:

money -= 1000

thou\_note += 1

elif money >= 500:

money -= 500

five\_hund\_note += 1

elif money >= 100:

money -= 100

one\_hund\_note += 1

elif money >= 50:

money -= 50

fifty\_note += 1

elif money >= 20:

money -= 20

twenty\_note += 1

elif money >= 10:

money -= 10

ten\_coin += 1

elif money >= 5:

money -= 5

five\_coin += 1

elif money >= 2:

money -= 2

two\_coin += 1

else:

money -= 1

one\_coin += 1

if thou\_note >= 1:

print(f"1000-baht notes: {thou\_note}")

if five\_hund\_note >= 1:

print(f"500-baht notes: {five\_hund\_note}")

if one\_hund\_note >= 1:

print(f"100-baht notes: {one\_hund\_note}")

if fifty\_note >= 1:

print(f"50-baht notes: {fifty\_note}")

if twenty\_note >= 1:

print(f"20-baht notes: {twenty\_note}")

if ten\_coin >= 1:

print(f"10-baht coins: {ten\_coin}")

if five\_coin >= 1:

print(f"5-baht coins: {five\_coin}")

if two\_coin >= 1:

print(f"2-baht coins: {two\_coin}")

if one\_coin >= 1:

print(f"1-baht coins: {one\_coin}")

Result:

A screenshot of a computer

AI-generated content may be incorrect.

5.

Code:

def reverse(number):

num = list(str(number))

rev = ""

for i in num[::-1]:

rev += i

return rev

print(reverse(3456))

Result:

