

Homework #6

O1286121 Computer Programming Software Engineering Program, Department of Computer Engineering, School of Engineering, KMITL

Ву

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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.")
    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)
```

Please enter a 24 hr format time: 23:24 11:24 PM

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:
       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()
```

August 2025						
Мо	Tu	We	Th	Fr	Sa	Su
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

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}")
          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")
```

- yolkai@Anandas-MacBook-Pr Enter a number: 65 sixty-five
- yolkai@Anandas-MacBook-Pr Enter a number: 411 four hundred and eleven
- yolkai@Anandas-MacBook-Pr Enter a number: 2354689I don't know

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}")
```

```
Input your amount of money: 1693
1000-baht notes: 1
100-baht notes: 1
50-baht notes: 1
20-baht notes: 2
2-baht coins: 1
1-baht coins: 1
```

Code:

```
def reverse(number):
    num = list(str(number))
    rev = ""
    for i in num[::-1]:
        rev += i
        return rev

print(reverse(3456))
```

yolkai@Anandas-MacBook-Pro python % /usr/ 6543