Homework # 6

01286121 Computer Programming

Software Engineering Program,

Department of Computer Engineering,

School of Engineering, KMITL

By

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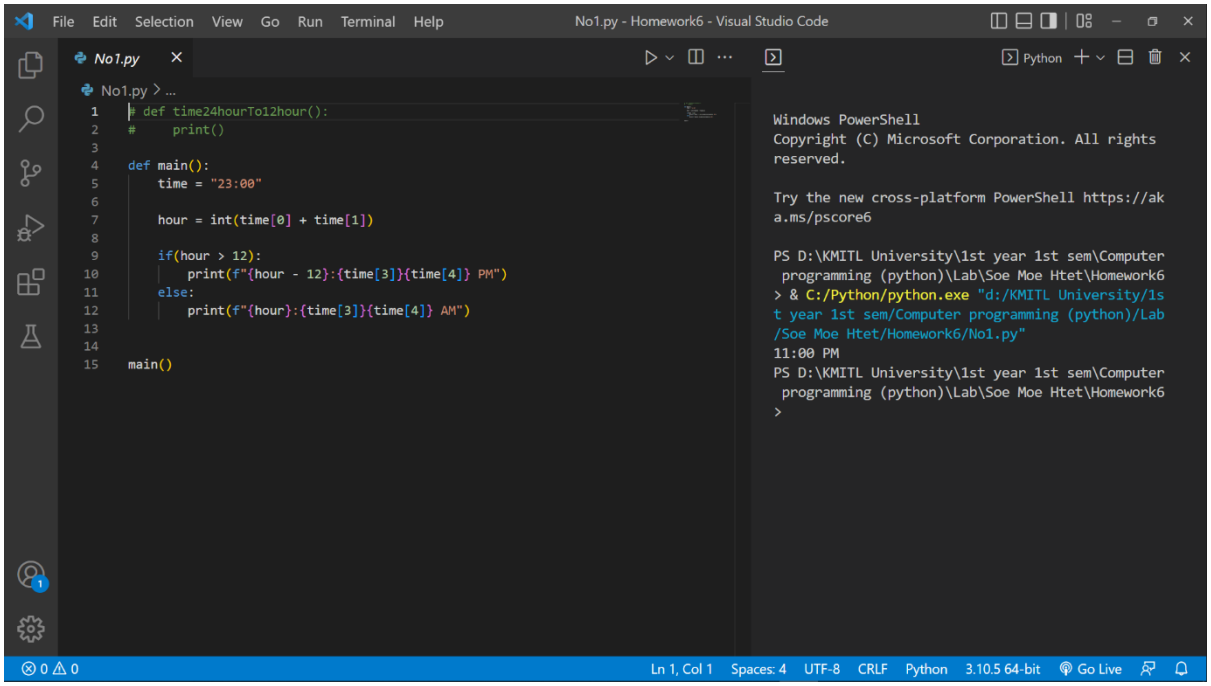
No.1



No.2

Code

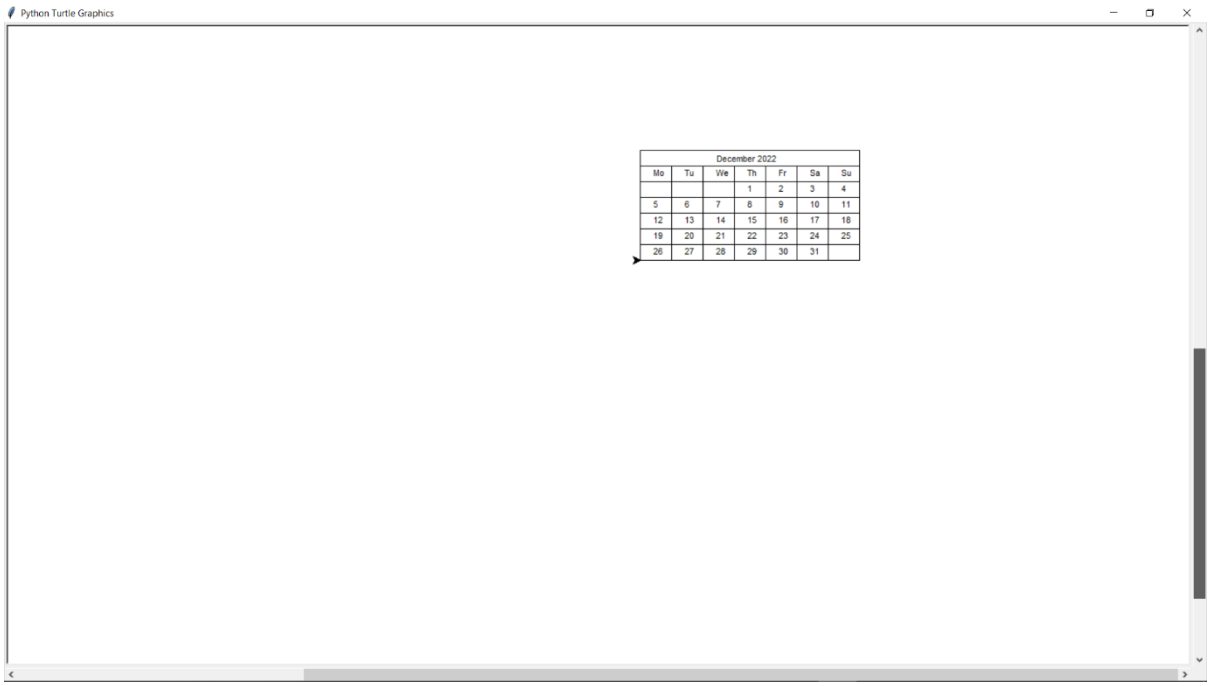
```
import turtle as t
win_width, win_height, bg_color = 2000, 2000, 'white'

t.setup()
t.screensize(win_width, win_height, bg_color)
t.speed(0)
arr = ["Mo","Tu","We","Th","Fr","Sa","Su"]
arr1 =['January', 'February', 'March', 'April', 'May', 'June', 'July', 'August',
'September', 'October', 'November', 'December']

def month(month_no, startDay, numberOfDays, a = 6, b = 7 ):
    #tile
    for _ in range(2):
        t.fd(280)
        t.right(90)
        t.fd(20)
        t.right(90)

    t.right(90)
    t.fd(20)
    t.left(90)
    t.write(f"                    \t {arr1[month_no-1]} 2022        ", align="left")
    #Heading
    for cols in range(len(arr)):
        for i in range(2):
            t.fd(40)
            t.right(90)
```

```
            t.fd(20)
            t.right(90)

        #table contents
        t.penup()
        t.right(45)
        t.fd(25)
        t.left(45)
        t.pendown()
        t.write(arr[cols])
        t.penup()
        t.right(45)
        t.fd(-25)
        t.left(45)
        t.pendown()

        # end

        t.fd(40)

    t.fd(-280)
    t.penup()
    t.right(90)
    t.fd(20)
    t.left(90)
    t.pendown()


    c = 0
    day = 0
    for _ in range(a):
        for cols in range(b):
            for i in range(2):
                t.fd(40)
                t.right(90)
                t.fd(20)
                t.right(90)
            c+=1
            if c >= startDay and c<=numberOfDays:
                day+=1


                t.penup()
                t.right(45)
                t.fd(25)
                t.left(45)
                t.pendown()
                t.write(day)
                t.penup()
                t.right(45)
                t.fd(-25)
                t.left(45)
                t.pendown()


            t.fd(40)

        t.fd(-280)
```

```
        t.penup()
        t.right(90)
        t.fd(20)
        t.left(90)
        t.pendown()

def draw_month(x, y):
    t.penup()
    t.goto(x, y)
    t.pendown()


def calendar_of_2022(number):
    if(number == 1):
        draw_month(-750,350)
        month(1,6,36)

    elif(number == 2):
        draw_month(-750,90)
        month(2,2,29, a = 5, b = 7 )

    elif(number == 3):
        draw_month(-750,-170)
        month(3,2,32, a = 5, b = 7 )

    elif(number == 4):
        draw_month(-400,350)
        month(4,5,34, a = 5, b = 7 )

    elif(number == 5):
        draw_month(-400,90)
        month(5,0,30, a = 5, b = 7 )

    elif(number == 6):
        draw_month(-400,-170)
        month(6,3,32, a = 5, b = 7 )

    elif(number == 7):
        draw_month(-50,350)
        month(7,5,35)

    elif(number == 8):
        draw_month(-50,90)
        month(8,1,31, a = 5, b = 7 )

    elif(number == 9):
        draw_month(-50,-170)
        month(9,4,33, a = 5, b = 7 )

    elif(number == 10):
        draw_month(300,350)
        month(10,6,36)


    elif(number == 11):
        draw_month(300,90)
        month(11,2,31, a = 5, b = 7 )
```

```
    elif(number == 12):
        draw_month(300,-170)
        month(12,4,34, a = 5, b = 7 )

def main():

    calendar_of_2022(12)
    t.done()

main()
```

Output



No.4

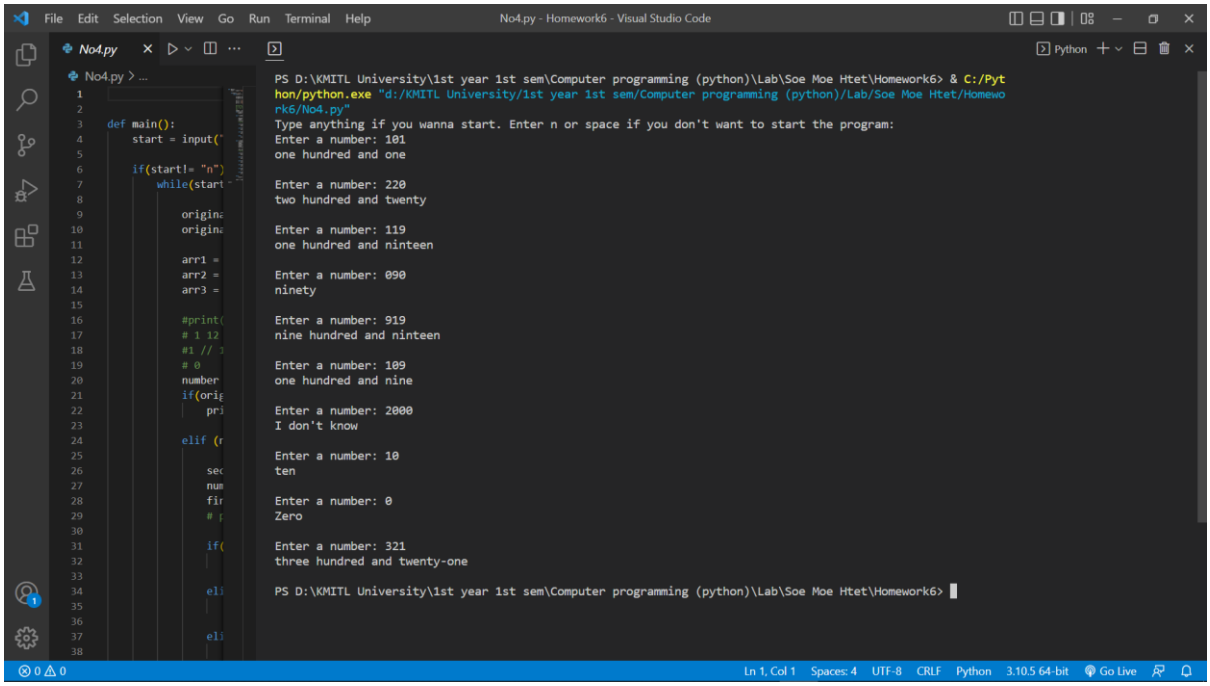
Code

```
def main():
    start = input("Type anything if you wanna start. Enter n or space if you don't want to
start the program: ")

    if(start!= "n"):
        while(start != ' '):

            original_number = int(input("Enter a number: "))
            original_number = int(original_number)

            arr1 = ["one","two","three","four","five","six","seven","eight","nine"]
            arr2 = ["ten", "eleven","twelve","thirteen","fourteen","fifteen",
"sixteen","seventeen","eighteen","ninteen"]
            arr3 = ["twenty","thirty","forty","fifty","sixty","seventy","eighty","ninety"]
```

```
            #print(123 // 100, 123//10, 123 /100, 123/ 10, 123 % 10, 123 % 100)
            # 1 12 1.23 12.3 3 23
            #1 // 10, 1/10, 1%10)
            # 0         0.1     1
            number = original_number
            if(original_number == 0):
                print("Zero")

            elif (number >= 0 and number < 100):

                second_digit = number % 10
                number = number // 10
                first_digit = number % 10
                # print(first_digit, second_digit)

                if(original_number > 0 and original_number < 10):
                    print(f"{arr1[original_number-1]}")

                elif(original_number>= 10 and original_number < 20):
                    print(f"{arr2[second_digit]}")

                elif(second_digit == 0):
                    print(f"{arr3[first_digit-2]}")

                else:
                    print(f"{arr3[first_digit-2]}-{arr1[second_digit-1]}")


            elif (number >=0 and number < 1000):
                third_digit = number % 10
                number = number // 10
                second_digit = number % 10
                number = number // 10
                first_digit = number % 10

                last_two_digits = second_digit * 10 + third_digit
                # print(first_digit, second_digit, third_digit)

                if(second_digit == 0 and third_digit == 0):
                    print(f"{arr1[first_digit-1]} hundred")

                elif(original_number % 100 > 0 and original_number % 100 < 10):
                    print(f"{arr1[first_digit-1]} hundred and {arr1[third_digit-1]}")

                elif(original_number % 100 >= 10 and original_number % 100 < 20):
                    print(f"{arr1[first_digit-1]} hundred and {arr2[third_digit]}")

                elif(last_two_digits % 10 == 0):
                    print(f"{arr1[first_digit-1]} hundred and {arr3[second_digit-2]}")

                elif(last_two_digits > 19 and last_two_digits < 100):
                    print(f"{arr1[first_digit-1]} hundred and {arr3[second_digit-2]}-
{arr1[third_digit-1]}")

                elif(last_two_digits == 00):
                    print(f"{arr1[first_digit-1]} hundred")
```

```
            else:
                print("I don't know")

            start = input("")

main()
```

Sample output



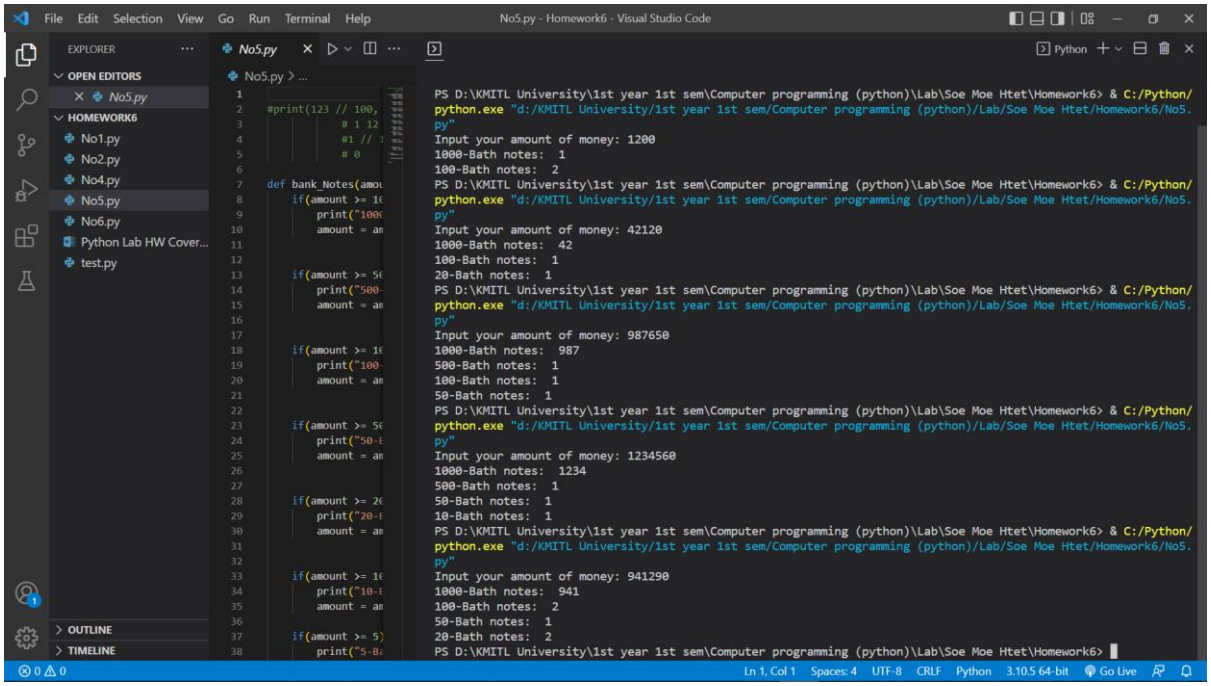
No.5

Code

```
#print(123 // 100, 123//10, 123 /100, 123/ 10, 123 % 10, 123 % 100)
            # 1 12 1.23 12.3 3 23
            #1 // 10, 1/10, 1%10)
            # 0         0.1     1

def bank_Notes(amount):
    if(amount >= 1000):
        print("1000-Bath notes: ",amount // 1000)
        amount = amount - (amount // 1000) * 1000


    if(amount >= 500):
        print("500-Bath notes: ",amount // 500)
        amount = amount - (amount // 500) * 500


    if(amount >= 100):
        print("100-Bath notes: ",amount // 100)
        amount = amount - (amount // 100) * 100
```

```
    if(amount >= 50):
        print("50-Bath notes: ", amount // 50)
        amount = amount - (amount // 50) * 50


    if(amount >= 20):
        print("20-Bath notes: ", amount // 20)
        amount = amount - (amount // 20) * 20


    if(amount >= 10):
        print("10-Bath notes: ", amount // 10)
        amount = amount - (amount // 10) * 10

    if(amount >= 5):
        print("5-Bath notes: ", amount // 5)
        amount = amount - (amount // 5) * 5



    if(amount >= 2):
        print("2-Bath notes: ", amount // 2)
        amount = amount - (amount // 2) * 2



    if(amount >= 1):
        print("1-Bath notes: ", amount // 1)
        amount = amount - (amount // 1)


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


    bank_Notes(input_amount)


main()
```

Sample output



No.6