



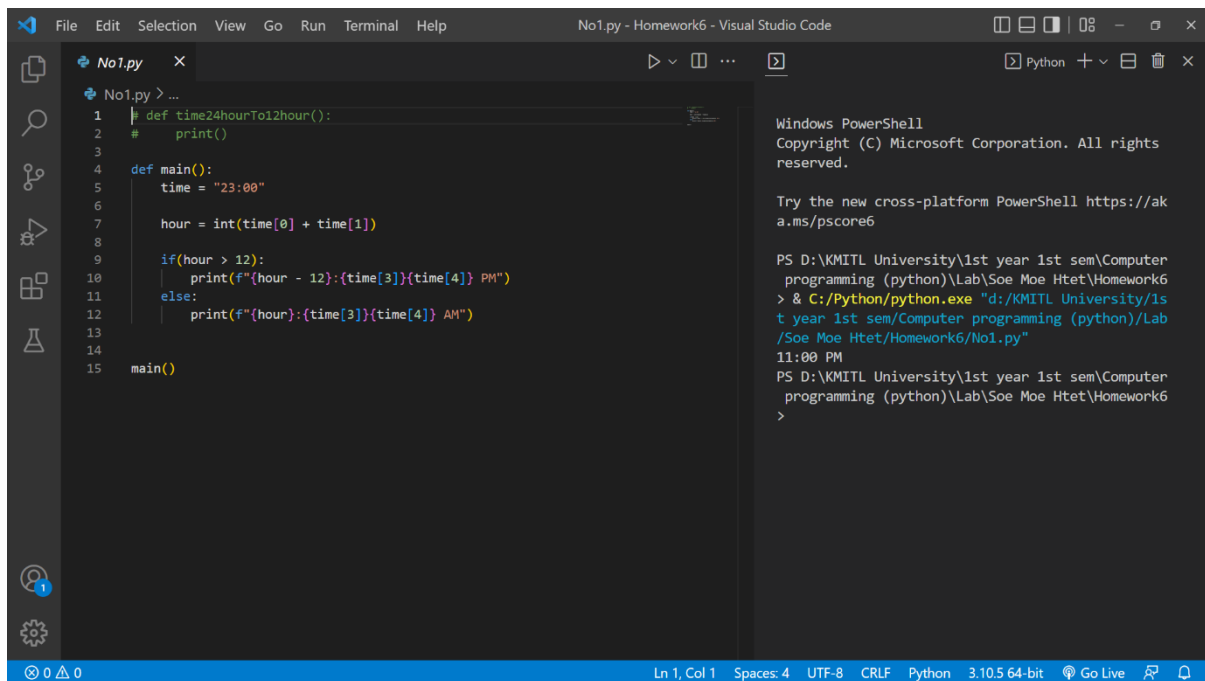
## **Homework # 6**

**01286121 Computer Programming  
Software Engineering Program,  
Department of Computer Engineering,  
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By

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No.1



The screenshot shows the Visual Studio Code interface. The editor window displays a Python file named `No1.py` with the following code:

```
1 # def time24hourTo12hour():
2 #     print()
3
4 def main():
5     time = "23:00"
6
7     hour = int(time[0] + time[1])
8
9     if(hour > 12):
10        print(f"{hour - 12}:{time[3]}{time[4]} PM")
11    else:
12        print(f"{hour}:{time[3]}{time[4]} AM")
13
14
15 main()
```

The output console on the right shows the execution of the script in a Windows PowerShell terminal:

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\KMITL University\1st year 1st sem\Computer programming (python)\Lab\Soe Moe Htet\Homework6
> & C:/Python/python.exe "d:/KMITL University/1st year 1st sem/Computer programming (python)/Lab/Soe Moe Htet/Homework6/No1.py"
11:00 PM
PS D:\KMITL University\1st year 1st sem\Computer programming (python)\Lab\Soe Moe Htet\Homework6
>
```

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 )

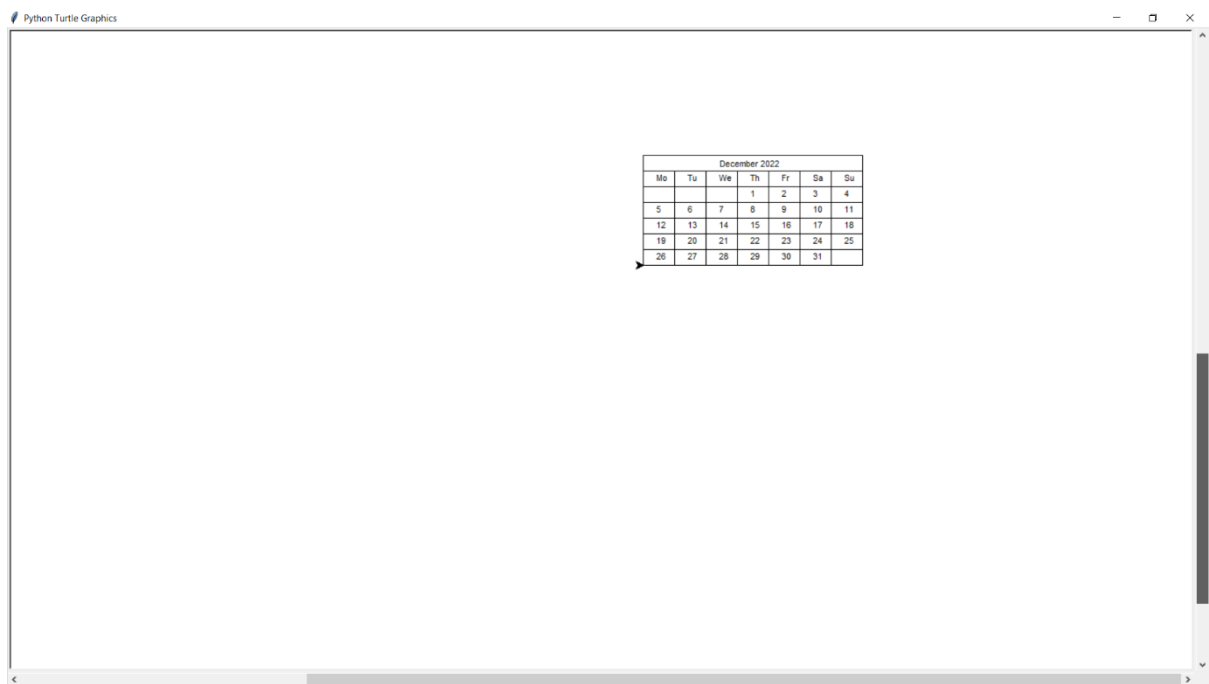
def main():

    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","nineteen"]
            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

```

PS D:\KMIL University\1st year 1st sem\Computer programming (python)\Lab\Soe Moe Htet\Homework6> & C:/Python/python.exe "d:/KMIL University/1st year 1st sem/Computer programming (python)/Lab/Soe Moe Htet/Homework6/No4.py"
Type anything if you wanna start. Enter n or space if you don't want to start the program:
Enter a number: 101
one hundred and one
Enter a number: 220
two hundred and twenty
Enter a number: 119
one hundred and nineteen
Enter a number: 090
ninety
Enter a number: 919
nine hundred and nineteen
# 1 12
# 1 // 3
Enter a number: 109
one hundred and nine
number
if(orig
pr)
Enter a number: 2000
I don't know
elif (r
sec
nun
fir
# :
If(
Enter a number: 321
three hundred and twenty-one
eli
PS D:\KMIL University\1st year 1st sem\Computer programming (python)\Lab\Soe Moe Htet\Homework6>

```

## 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)

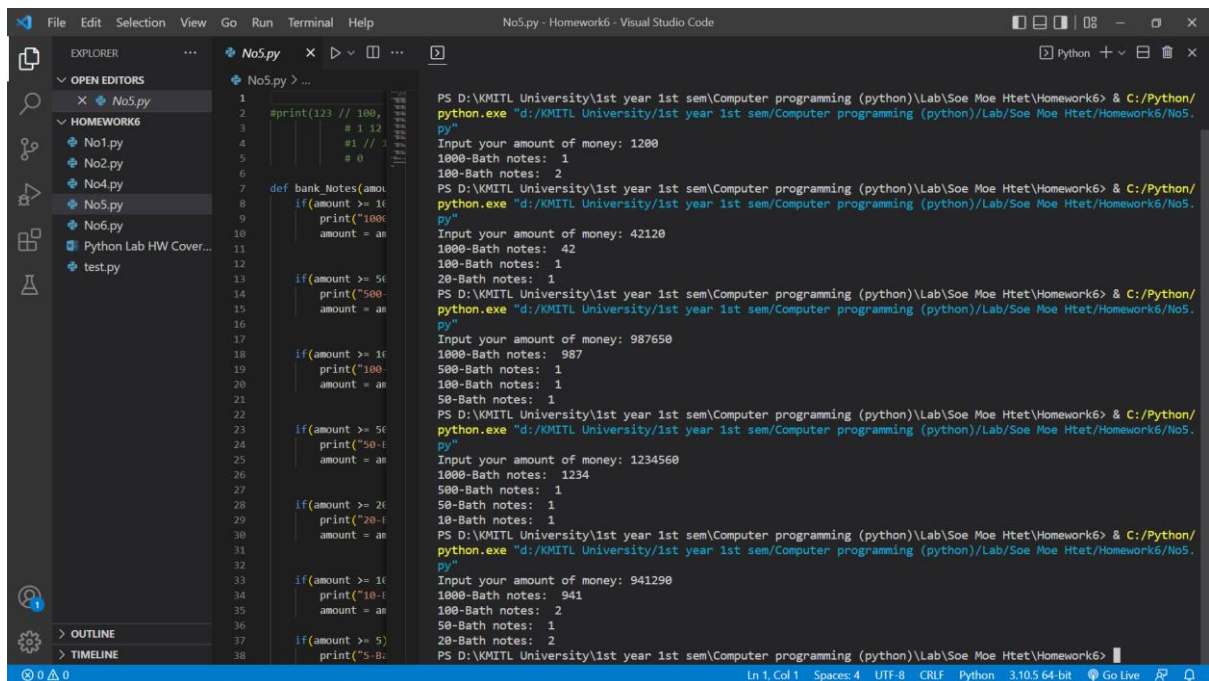
def main():
    input_amount = int(input("Input your amount of money: "))

    bank_Notes(input_amount)

main()
```



## Sample output



```
1 #print(123 // 100,
2 # 1 // 10,
3 # 1 // 100,
4 # 1 // 100,
5 # 0)
6
7 def bank_Notes(amount):
8     if amount >= 1000:
9         print("1000-Bath notes: ", amount // 1000)
10        amount = amount % 1000
11
12     if amount >= 500:
13         print("500-Bath notes: ", amount // 500)
14        amount = amount % 500
15
16     if amount >= 100:
17         print("100-Bath notes: ", amount // 100)
18        amount = amount % 100
19
20     if amount >= 50:
21         print("50-Bath notes: ", amount // 50)
22        amount = amount % 50
23
24     if amount >= 20:
25         print("20-Bath notes: ", amount // 20)
26        amount = amount % 20
27
28     if amount >= 10:
29         print("10-Bath notes: ", amount // 10)
30        amount = amount % 10
31
32     if amount >= 5:
33         print("5-Bath notes: ", amount // 5)
34        amount = amount % 5
35
36     if amount >= 1:
37         print("1-Bath notes: ", amount // 1)
38        amount = amount % 1
39
40     return amount
```

PS D:\KMITL University\1st year 1st sem\Computer programming (python)\Lab\Soe Moe Htet\Homework6> & C:/Python/python.exe "d:/KMITL University/1st year 1st sem/Computer programming (python)/Lab/Soe Moe Htet/Homework6/No5.py"

Input your amount of money: 1200  
1000-Bath notes: 1  
100-Bath notes: 2

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Input your amount of money: 42120  
1000-Bath notes: 42  
100-Bath notes: 1  
20-Bath notes: 1

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Input your amount of money: 987650  
1000-Bath notes: 987  
500-Bath notes: 1  
100-Bath notes: 1  
50-Bath notes: 1

PS D:\KMITL University\1st year 1st sem\Computer programming (python)\Lab\Soe Moe Htet\Homework6> & C:/Python/python.exe "d:/KMITL University/1st year 1st sem/Computer programming (python)/Lab/Soe Moe Htet/Homework6/No5.py"

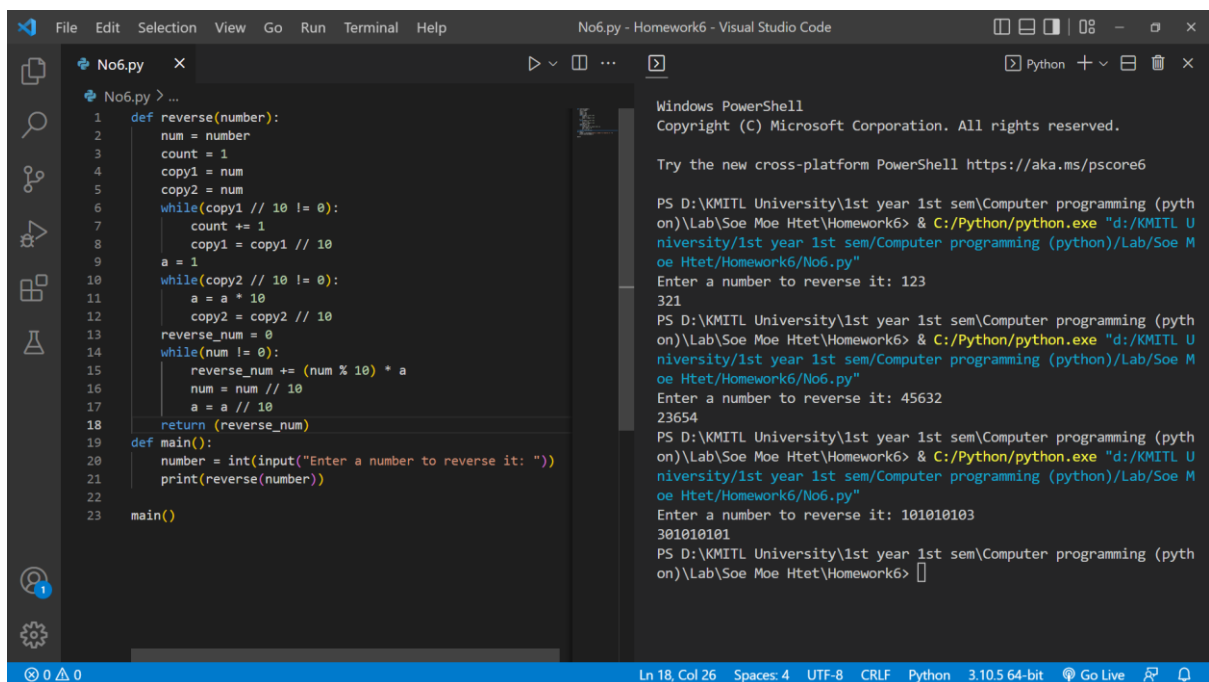
Input your amount of money: 1234560  
1000-Bath notes: 1234  
500-Bath notes: 1  
50-Bath notes: 1  
10-Bath notes: 1

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Input your amount of money: 941290  
1000-Bath notes: 941  
100-Bath notes: 2  
50-Bath notes: 1  
20-Bath notes: 2

PS D:\KMITL University\1st year 1st sem\Computer programming (python)\Lab\Soe Moe Htet\Homework6>

## No.6



```
1 def reverse(number):
2     num = number
3     count = 1
4     copy1 = num
5     copy2 = num
6     while(copy1 // 10 != 0):
7         count += 1
8         copy1 = copy1 // 10
9     a = 1
10    while(copy2 // 10 != 0):
11        a = a * 10
12        copy2 = copy2 // 10
13    reverse_num = 0
14    while(num != 0):
15        reverse_num += (num % 10) * a
16        num = num // 10
17        a = a // 10
18    return (reverse_num)
19
20 def main():
21     number = int(input("Enter a number to reverse it: "))
22     print(reverse(number))
23
24 main()
```

Windows PowerShell  
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PS D:\KMITL University\1st year 1st sem\Computer programming (python)\Lab\Soe Moe Htet\Homework6> & C:/Python/python.exe "d:/KMITL University/1st year 1st sem/Computer programming (python)/Lab/Soe Moe Htet/Homework6/No6.py"

Enter a number to reverse it: 123  
321

PS D:\KMITL University\1st year 1st sem\Computer programming (python)\Lab\Soe Moe Htet\Homework6> & C:/Python/python.exe "d:/KMITL University/1st year 1st sem/Computer programming (python)/Lab/Soe Moe Htet/Homework6/No6.py"

Enter a number to reverse it: 45632  
23654

PS D:\KMITL University\1st year 1st sem\Computer programming (python)\Lab\Soe Moe Htet\Homework6> & C:/Python/python.exe "d:/KMITL University/1st year 1st sem/Computer programming (python)/Lab/Soe Moe Htet/Homework6/No6.py"

Enter a number to reverse it: 101010101  
101010101

PS D:\KMITL University\1st year 1st sem\Computer programming (python)\Lab\Soe Moe Htet\Homework6>