Homework # 03

13006107 Introduction to Computers and Programming

Software Engineering Program

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By

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```
Q1
emp_name = input("Enter employee name: ")
worktime = float(input("Enter work hour: "))
payrate = float(input("Enter pay rate: "))
fedtax = float(input("Enter federal tax withholding rate: "))
statetax = float(input("Enter state tax withholding rate: "))

gross_pay = worktime * payrate
fedtax_div = (fedtax / 100)
statetax_div = (statetax / 100)

fedtax_finish = fedtax_div * gross_pay
statetax_finish = statetax_div * gross_pay
total_deduction = fedtax_finish + statetax_finish

net_pay = gross_pay - total_deduction

print("Employee name: ", emp_name)
print("Hours worked: ", worktime)
print("Pay rate :", "${:.2f}".format(payrate))
print("Gross pay :", "${:.2f}".format(gross_pay))
print("Deductions: ")
print(f"\t Federal Withholding ({fedtax}):", "${:.2f}".format(fedtax_finish))
print(f"\t State Withholding ({statetax}):", "${:.2f}".format(statetax_finish))
print(f"\t Total Deduction:", "${:.2f}".format(total_deduction))
print("Net Pay:", "${:.2f}".format(net_pay))

Q2
num = input("Enter 4 digit int: ")
def reverse(z): return z[::-1]
reverse_num = reverse(num)
print(reverse_num)

Q3
from turtle import *

length = int(input("Enter length: "))
for i in range(5):
    fd(length)
    right(144) done()
```

Q4

```
from turtle import *

pensize(5)
def upper_row(radius):
    for i in range(3):
        if i == 2:
            color("RED")
            circle(radius)
        elif i < 2:
            if i == 1:
                color("BLACK")
            elif i == 0:
                color("BLUE")
            circle(radius)
            penup()
            forward((radius*2)+(radius/3))
            pendown()
def lower_row(radius):
    penup()
    goto(-100,0)
    forward(radius+(radius/4))
    right(90)
    forward((radius))
    left(90)
    pendown()
    color("YELLOW")
    circle(radius)
    penup()
    forward((radius * 2) + (radius / 3))
    pendown()
    color("GREEN")
    circle(radius)

radius = float(input("Enter the radius: "))
penup()
goto(-100,0)
pendown()
upper_row(radius)
lower_row(radius)
done()
```