

Bài tập môn kỹ thuật lập trình chương 3

Bài 1: Rewrite your pay computation to give the employee 1.5 times the hourly rate for hours worked above 40 hours.

```
bài 1 c3.py > ...
1  Hours = float(input("Enter hours"))
2  Rate = float(input("Enter Rate"))
3  Standar_hour=40
4  if Hours <= Standar_hour:
5      Pay= Hours*Rate
6  else:
7      Standar_pay = Standar_hour * Rate
8      Overtime_hours= Hours-Standar_hour
9      Overtime_pay= Overtime_hours*Rate*1.5
10     Pay= Standar_pay+Overtime_pay
11     print("Pay: ",Pay)
12
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe "d:/VS_CODE/bài 1 c3.py"
Enter hours41
Enter Rate2
Pay: 83.0
PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe "d:/VS_CODE/bài 1 c3.py"
Enter hours45
Enter Rate10
Pay: 475.0
PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe "d:/VS_CODE/bài 1 c3.py"
Enter hours
```

Bài 2: Rewrite your pay program using try and except so that your program handles non-numeric input gracefully by printing a message and exiting the program. The following shows two executions of the program:

```
baif2c3.py > ...
1  try:
2      hours = float(input("Enter Hours: "))
3      rate = float(input("Enter Rate: "))
4  except:
5      print("Error, please enter numeric input")
6  else:
7      if hours > 40:
8          pay = 40 * rate + (hours - 40) * rate * 1.5
9      else:
10         pay = hours * rate
11     print("Pay:", pay)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe d:/VS_CODE/baif2c3.py
Enter Hours: tri
Error, please enter numeric input
PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe d:/VS_CODE/baif2c3.py
Enter Hours: 20
Enter Rate: nine
Error, please enter numeric input
PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe d:/VS_CODE/baif2c3.py
Enter Hours: forty
Error, please enter numeric input
```

Bài 3: Write a program to prompt for a score between 0.0 and 1.0.

If the score is out of range, print an error message.

If the score is between 0.0 and 1.0, print a grade using the following table:

```
bài 3c3.py > ...
1  score = input("Enter score: ")
2
3  try:
4      score = float(score)
5  except:
6      print("Bad score")
7  else:
8      if score < 0.0 or score > 1.0:
9          print("Bad score")
10         elif score >= 0.9:
11             print("A")
12         elif score >= 0.8:
13             print("B")
14         elif score >= 0.7:
15             print("C")
16         elif score >= 0.6:
17             print("D")
18         else:
19             print("F")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe "d:/VS_CODE/bài 3c3.py"
Enter score: 0.95
A
PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe "d:/VS_CODE/bài 3c3.py"
Enter score: perfect
Bad score
PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe "d:/VS_CODE/bài 3c3.py"
Enter score: 10.0
Bad score
PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe "d:/VS_CODE/bài 3c3.py"
Enter score: 0.75
C
PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe "d:/VS_CODE/bài 3c3.py"
Enter score: 0.5
F
```