

**Exercise 01:** Write your pay computation to give the employee 1.5 times the hourly rate for hours worked above 40 hours (create a function called `computepay` which takes two parameters (hours and rate).) [2.5 marks]

```
Enter Hours: 45
Enter Rate: 10
Pay: 475.0
```

Note: 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:

```
Enter Hours: 20
Enter Rate: nine
Error, please enter numeric input
Enter Hours: forty
Error, please enter numeric input
```

**Exercise 02:** Write a program using a function called `computegrade` that takes a score as its parameter and returns a grade as a string. [2.5 marks]

```
Score  Grade
> 0.9   A
> 0.8   B
> 0.7   C
> 0.6   D
<= 0.6  F
#-----
Program Execution:
Enter score: 0.95
A
Enter score: perfect
Bad score
Enter score: 10.0
Bad score
Enter score: 0.75
C
Enter score: 0.5
F
```

Run the program repeatedly to test the various different values for input.

**Exercise 03:** Write a program (using functions) which repeatedly reads numbers until the user enters "done". Once "done" is entered, print out the total, count, and average of the numbers. If the user enters anything other than a number, detect their mistake using try and except and print an error message and skip to the next number. [2.5 marks]

```
Enter a number: 4
Enter a number: 5
Enter a number: bad data
Invalid input
Enter a number: 7
Enter a number: done
16 3 5.333333333333333
```

**Exercise 04:** Write program (using functions) input two integers a and b, write functions to perform the following functions : [2.5 marks]

1. Check a , b > 0 and b – a >= 10, if wrong, output a message
2. Print the prime numbers from a to b in descending order

Hint: for i in range(10,0,-1):

```
print(i, end=' ')
```

# Output: 10 9 8 7 6 5 4 3 2 1

3. Print the sum of prime numbers from a to b
4. Print the average of the prime numbers from a to b

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