

Name _____

CPADS Lab Activity #8**Program #1**

```
var = input('Input a value between 60 and 100: ')
val = int(var)

if val > 90:
    print('Great job!')
elif val > 80 and val < 90:
    print('Not bad')
elif val >= 70 and val < 80:
    print('Could be better')
else:
    print('Need more practice')
```

What is the output of the above program if the user inputs the value 95 when prompted?

Great job

What is the output of the above program if the user inputs the value 90 when prompted?

Need more practice (90 isn't caught by either first or second case)

What is the output of the above program if the user inputs the value 80 when prompted?

Need more practice (same as 90)

What is the output of the above program if the user inputs the value 65 when prompted?

Need more practice

What is the output of the above program if the user inputs the value 40 when prompted?

Need more practice (60-100 range is not validated)

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Program #2

```

def compute_val(input):
    sum = 0
    for i in range(input):
        if i % 2 == 1:
            sum = sum + i
        else:
            sum = sum - i
    return sum

def main():
    val = compute_val(10)
    print(val)

main()

```

(0-9)

<u>input</u>	<u>sum</u>	<u>i</u>	<u>i % 2</u>
10	0	0	0
	0	1	1
	1	2	0
	1	3	1
	2	4	0
	2	5	1
	3	6	0
	3	7	1
	4	8	0
	4	9	1
	5		

← adds odds
← subtracts even

In English, describe what the program above does. What is the output of the program above?

Final output is 5