



Conditional Statements (if)

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```
pp.py x
marks = 49
if marks >= 35:
    print("Congratulation: You are PASS")
print("Have a good day !")
```

```
C:\Users\Hiren Patel\PycharmProjects
Congratulation: You are PASS
Have a good day !
```

```
Process finished with exit code 0
```

```
marks = 29
if marks >= 35:
    print("Congratulation: You are PASS")
print("Have a good day !")
```

```
app x
"C:\Users\Hiren Patel\PycharmProjects
Have a good day !

Process finished with exit code 0
```



Conditional Statements (if-else)

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```
marks = 59
if marks >= 35:
    print("Congratulation: You are PASS")
else:
    print("Sorry: Better luck next time")
print("Have a good day !")
```

```
marks = 29
if marks >= 35:
    print("Congratulation: You are PASS")
else:
    print("Sorry: Better luck next time")
print("Have a good day !")
```

```
"C:\Users\Hiren Patel\PycharmProjec
Congratulation: You are PASS
Have a good day !
```

```
"C:\Users\Hiren Patel\PycharmProjec
Sorry: Better luck next time
Have a good day !
```



Conditional Statements (if-elif-else)

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```
marks = 80
if marks >= 70:
    print("Congratulation: You are PASS with Distinction")
elif marks >= 35:
    print("Congratulation: You are PASS")
else:
    print("Sorry: Better luck next time")
print("Have a good day !")
```

```
"C:\Users\Hiren Patel\PycharmProjects\HelloWorld
Congratulation: You are PASS with Distinction
Have a good day !
|
Process finished with exit code 0
```



Conditional Statements (if-elif-else)

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```
1.py
# Logical Operators: AND (All conditions), OR (At least, one condition)
# Relational Operators: <, >, =
# Home loans are offered based on CIBIL score of the candidate
# if CIBIL score is more than or equal to 700 then loan is offered 7.90%
# if CIBIL score is within 600 and 699 then loan is offered at 8.00%
# if CIBIL score is within 500 and 599 loan is offered at 8.25%
# for CIBIL score less than 500, loan shall not be offered
# read the CIBIL score and display the loan option available
CIBIL = int(input('Enter the CIBIL Score : '))
print(CIBIL)
if (CIBIL >= 700) and (CIBIL <= 1000):
    print('You are eligible for the home loan at the rate of 7.90%')
elif (CIBIL >= 600) and (CIBIL <= 699):
    print('You are eligible for the home loan at the rate of 8.00%')
elif (CIBIL >= 500) and (CIBIL <= 599):
    print('You are eligible for the home loan at the rate of 8.25%')
elif (CIBIL >= 0) and (CIBIL <= 499):
    print('Sorry: You are not qualified for the loan')
else:
    print('Invalid CIBIL Score')
print('Thank you for using the loan rate calculator')
```

```
app
"C:\Users\Hiren Patel\PycharmProjects\HelloWorld\venv\Scripts\python.exe"
Enter the CIBIL Score : 750
750
You are eligible for the home loan at the rate of 7.90%
Thank you for using the loan rate calculator

Process finished with exit code 0
```



Simple Programs (Temperature Converter)

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```
# Fahrenheit to Celsius Conversion: (F - 32) x .5556 = C
# Celsius to Fahrenheit Conversion: (C x 1.8) + 32 = F
temp = int(input('Enter Temperature : '))
unit = input('(F)ahrenheit to (C)elsius : ')
if unit.upper()=='F':
    converted = (temp - 32) * 0.5556
    print(f"Temperature in Celsius = {converted}")
elif unit.upper()=='C':
    converted = (temp * 1.8) + 32
    print(f"Temperature in Fahrenheit = {converted}")
else:
    print('Invalid Choice')
```

```
"C:\Users\Hiren Patel\PycharmProjects\HelloWo
Enter Temperature : 102
(F)ahrenheit to (C)elsius : F
Temperature in Celsius = 38.891999999999996
```