f-string

f-string or format string, this is introduced in python 3.8 version.

f"format"

in format string, string contain formatting characters, these characters are defined using {} (replacement field)

Example:
```
a=100
b=200
print(f'{a},{b}')
print(f'sum of {a} and {b} is {a+b}')
c=10
print(f'{c:d},{c:o},{c:x},{c:b}')
d=1.5
print(f"{d}")
print(f"{d:f},{d:e}")
print(f"{d:.2f}")
e="python"
print(f"{e}")
```
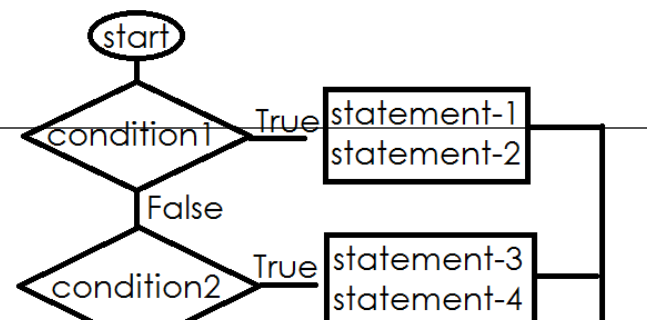
Output:
```
100,200
sum of 100 and 200 is 300
10,12,a,1010
1.5
1.500000,1.500000e+00
1.50
Python
```

If..elif..else (if..else ladder)
Using more than one conditional statement

Syntax:	
If <condition1>:	

```
    Statement-1
    Statement-2
elif <condition2>:
    Statement-3
    Statement-4
elif <condition3>:
    Statement-5
    Statement-6
else:
     Statement-7
```

If condition1 is True, PVM
executes Statement-1,Statement-2
If condition1 is False and
condition2 is True, PVM executes
Statement-3,Statement-4
If condition1,condition2 are False
and condition3 is True, PVM
executes statement-5,statement-6
If all conditions are False PVM
executes statement-7

Example:
Write a program to find max of 3 numbers

```
n1=int(input("Enter First Number"))
n2=int(input("Enter Second Number"))
n3=int(input("Enter Third Number"))
if n1>n2 and n1>n3:
    print(f'Max is {n1}')
elif n2>n1 and n2>n3:
    print(f'Max is {n2}')
elif n3>n1 and n3>n2:
    print(f'Max is {n3}')
else:
    print("Equal")
```

Output

Enter First Number40
Enter Second Number60
Enter Third Number10
Max is 60

```python
n=int(input())
if n%2!=0:
    print("Weird")
elif n>=2 and n<=5:
    print("Not Weird")
elif n>=6 and n<=20:
    print("Weird")
else:
    print("Not Weird")
```

Example:
```python
# Elg to Vote or Not
name=input("Enter Name")
age=int(input("Enter Age"))
if age>=18:
    print(f'{name} is Elg')
else:
    print(f'{name} is not Elg')
```

Example:
```python
# Find Even or Odd
num=int(input("Enter any number"))
if num%2==0:
    print(f'{num} is Even')
else:
    print(f'{num} is Odd')
```

Example:
```python
# Input number is divisible with 7 or not
```

```python
num=int(input("Enter any number"))
if num%7==0:
    print(f'{num} is div with 7')
else:
    print(f'{num} is not div with 7')
```

Example:

```python
# Multiples of 5 or not

num=int(input("Enter any number"))
if num%5==0:
    print("Hello")
else:
    print("Bye")
```

Example:

Q8. Write a program to calculate the electricity bill (accept number of unit from user) according to the following criteria :

Unit	Price
First 100 units	no charge
Next 100 units	Rs 5 per unit
After 200 units	Rs 10 per unit

(For example if input unit is 350 than total bill amount is Rs2000)

```python
units=int(input("Enter Units"))
if units<=100:
    amt=0
elif units>100 and units<=200:
    amt=5*(units-100)
elif units>200:
    amt=0+500+(units-200)*10


print(f'Bill Amount {amt}')
```

Q2. Write a program to accept the cost price of a bike and display the road tax to be paid according to the following criteria :

Cost price (in Rs)	Tax
> 100000	15 %
> 50000 and <= 100000	10%
<= 50000	5%

Show Answer

Q1. Write a program to accept percentage from the user and display the grade according to the following criteria:

Marks	Grade
> 90	A
> 80 and <= 90	B
>= 60 and <= 80	C
below 60	D

Q9. Accept any city from the user and display monument of that city.

City	Monument
Delhi	Red Fort
Agra	Taj Mahal
Jaipur	Jal Mahal

Show Answer