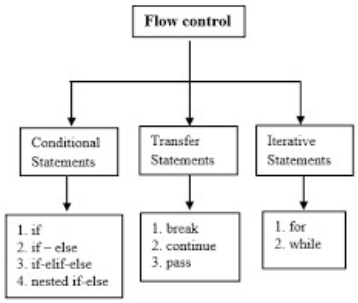

Here we will onlt see conditional statement from flow control

In [1]:
```
#if statement
x=int(input("Enter number: "))
if x>5:
    print("Entered number is greater than 5")
```

```
Enter number: 6
Entered number is greater than 5
```

In [2]:
```
#if statement
x=int(input("Enter number: "))
if x>5:
    print("Entered number is greater than 5")
```

```
Enter number: 4
```

In [3]:
```
#Nothing will happen if we input number less than 5. But,we can use else statement here in same example
#if else statement
x=int(input("Enter number: "))
if x>5:
    print("Entered number is greater than 5")
else:
    print("Number is less than 5")
```

```
Enter number: 4
Number is less than 5
```

In [2]:
```
#lets see grading exam with if else elif
marks=int(input("Enter your grade: "))
if marks>95:
    print(f"Grade is A because {marks} is higher than 95")
elif 94>marks and 80<marks:
    print(f"Grade is B because {marks} is higher than 80 but less than 94")
elif 79>marks and 60<marks:
    print(f"Grade is C because {marks} is higer than 60 but less than 79")
else:
    print("Not good marks")
```

```
Enter your grade: 77
Grade is C because 77 is higer than 60 but less than 79
```

In [4]:
```
#I have used f' string formatting method too in above code.
```

In [5]:
```
#Nested if : means if inside if statement
num=int(input("Enter number: "))
if num>10:
    if num%2==0:
        print("Num is greater than 10 as well as divided by 2")
    else:
        print("Num is greater than 10 but not divided by 2")
else:
    print("Num is not even greater than 10")
```

```
Enter number: 2
Num is not even greater than 10
```

In [6]:
```
#Nested if : means if inside if statement
num=int(input("Enter number: "))
if num>10:
    if num%2==0:
        print("Num is greater than 10 as well as divided by 2")
    else:
        print("Num is greater than 10 but not divided by 2")
else:
    print("Num is not even greater than 10")
```

```
Enter number: 22
Num is greater than 10 as well as divided by 2
```

In [7]:
```
#Nested if : means if inside if statement
num=int(input("Enter number: "))
if num>10:
```

```
    if num%2==0:
        print("Num is greater than 10 as well as divided by 2")
    else:
        print("Num is greater than 10 but not divided by 2")
else:
    print("Num is not even greater than 10")
```

```
Enter number: 15
Num is greater than 10 but not divided by 2
```

In [8]:
```
#we can see there was 3 condition and can see nested if else too.
```

In [1]:
```
#If the number is out of range the program should display "invalid number".
num=int(input("Please enter number: "))
if 1<num<10:
    print("Num is in the range")
else:
    print("invalid num")
```

```
Please enter number: 11
invalid num
```

In [3]:
```
# Make a program that asks a password.
password=input("Please enter the password, hunts- 3 english alphabet: ")
if password=='ABC':
    print("Permitted, correct password")
elif password=="DEF" or "GHI" or "JKL":
    print("Wrong password, hints- first 3 english alphabet, please enter again")
    password=input("Please enter the password, hunts- 3 english alphabet: ")

print("Thank you")
```

```
Please enter the password, hunts- 3 english alphabet: ABC
Permitted, correct password
Thank you
```

In [5]:
```
# Make a program that asks a password.
password=input("Please enter the password, hunts- 3 english alphabet: ")
if password=='ABC':
    print("Permitted, correct password")
elif password=="DEF" or "GHI" or "JKL":
    print("Wrong password, hints- first 3 english alphabet, please enter again")
    password=input("Please enter the password, hunts- 3 english alphabet: ")
    print("Permitted, correct password")
print("Thank you")
```

```
Please enter the password, hunts- 3 english alphabet: CCC
Wrong password, hints- first 3 english alphabet, please enter again
Please enter the password, hunts- 3 english alphabet: ABC
Permitted, correct password
Thank you
```

In [ ]:
```
```