Lecture 7

Control Flow Statements

if statement

In [2]:
```
i = 20

if i<10:
    print("20 is greater than 10")
print("condition is false")
```

```
condition is false
```

In [ ]:
```
Develop a temperature converter in Python for a
cold storage that converts temperatures
between Celsius and Fahrenheit scales.
The program should take a temperature value
and a unit (C or F) as input. If the temperature
is less than 15 degrees Celsius, inform the user
that the temperature is not convenient.
If the temperature is between 24 to 28 degrees Celsius,
inform the user that the temperature is convenient.
```

In [5]:
```
temp = float(input("enter the temperature"))

if temp<15:
    print("temperature is not convinient")

if 24<temp<28:
    print("temperature is convinient")
```

```
enter the temperature26
temperature is convinient
```

if else statement

In [ ]:
```
Write a program to check whether a person is eligible for voting or not
```

In [7]:
```
age = int(input("enter your age"))

if age>18:
    print("you are eligible to vote")
else:
    print("you are not eligible to vote")
```

```
enter your age32
you are eligible to vote
```

In [ ]:
```
You are tasked with developing a Python program
to manage employee salaries for a company.
Your program should calculate the net salary
of each employee based on their base salary, deductions,
and bonuses. Additionally, employees who have been with
the company for more than 5 years are eligible for an
additional loyalty bonus, 8% of salary. Deductions of tax will be 12%

Write a Python script that prompts the user to
input the following information for each employee:
Base salary
Years of service

After calculating the net salary,
the program should print a summary for each employee
including their base salary, deductions, bonuses,
loyalty bonus (if applicable), and net salary.
```

In [10]:
```
base_salary = float(input("Enter your base salary"))
years_of_service = int(input("enter your years of service"))

if years_of_service >5:
    total_salary = base_salary + (0.08*base_salary) - (0.12*base_salary)
    print("you will get net salary", total_salary)

else:
    net_salary = base_salary - (0.12*base_salary)
    print("your net salary is", net_salary)
```

```
Enter your base salary50000
enter your years of service6
you will get net salary 48000.0
```

if elif else

In [ ]:
```
Write a Python program that prompts the user to input
a city and displays the famous monument of that city.

Mumbai: Gateway of India
Kolkata: Victoria Memorial
Chennai: Marina Beach
Bangalore: Botanical Garden
Pune: Shaniwar Wada

Write a Python script to implement this functionality.
```

In [14]:
```
a = input("enter the city")

if a == "Mumbai":
    print("The famous monument is aget way of India")
elif a == "Kolkata":
    print("the famous monument  is victoria memorial")
elif a == "Chennai":
    print("the famous monument is Marina Beach")
elif a == "Bangalore":
    print("the famous monument  is botnical garden")
elif a == "pune":
    print("the famous monument  is shaniwar vada")
else:
    print("no record found")
```

```
enter the citydelhi
no record found
```

In [ ]:

In [ ]: