Conditional statement

In [1]:
```
if True:
    print('Data Science')
```

```
Data Science
```

In [2]:
```
if False:
    print('Data Science')
print('bye for now')
```

```
bye for now
```

In [3]:
```
x=4
r=x%2
if r==0:
    print('even number')
```

```
even number
```

In [4]:
```
x=5
r=x%2
if r==0:
    print('even number')
if r==1:
    print('odd number')
```

```
odd number
```

In [5]:
```
if True:
    print('Data Science')
else:
    print('no Data science')
```

```
Data Science
```

In [6]:
```
if False:
    print('Data Science')
else:
    print('no Data science')
```

```
no Data science
```

In [7]:
```
x=8
r=x%2
if r==0:
    print('even number')
else:
    print('odd number')
```

```
even number
```

In [8]:
```
x=9
r=x%2
if r==0:
    print('even number')
else:
    print('odd number')
```

```
odd number
```

Nested if

In [9]:
```
x=4
r=x%2
if r==0:
    print('even number')
    if x>5:
        print('greater number')
    else:
        print('lesser number')
else:
    print('odd number')
```

```
even number
lesser number
```

In [10]:
```
x=13
r=x%2
if r==0:
    print('even number')
    if x>5:
        print('greater number')
    else:
        print('lesser number')
else:
    print('odd number')
```

```
odd number
```

In [11]:
```
x=10
r=x%2
if r==0:
    print('even number')
    if x>5:
        print('greater number')
    else:
        print('lesser number')
else:
    print('odd number')
```

```
even number
greater number
```

elif statement

In [12]:
```
x=1
if x==1:
    print('one')
elif x==2:
    print('two')
elif x==3:
    print('three')
elif x==4:
    print('four')
```

```
one
```

In [13]:
```
x=1
if x==1:
    print('one')
elif x==2:
    print('two')
elif x==3:
    print('three')
elif x==4:
    print('four')
else:
    print('number not found')
```

```
one
```

In [14]:
```
age=19
if age>18:
    print('eligible to vote')
else:
    print('not eligible to vote')
```

```
eligible to vote
```

In [15]:
```
age=18
if age>18:
    print('eligible to vote')
else:
    print('not eligible to vote')
```

```
not eligible to vote
```

In [16]:
```
age=10
if age<=12:
    print('Travel for free')
else:
    print('Pay for the ticket')
```

```
Travel for free
```

In [17]:
```
marks=45
res="pass" if marks>=40 else "fail"
print(f"result:{res}")
```

```
result:pass
```

In [20]:
```
age=25
if age<=12:
    print('child')
elif age<=19:
    print('teenager')
elif age<=35:
    print('yong adult')
else:
    print('adult')
```

```
yong adult
```

In [21]:
```
age=70
is_member=True
if age>=60:
    if is_member:
```

```
        print('30% senior discount')
    else:
        print('20% senior discount')
else:
    print('not eligible for senior discount')
```

```
30% senior discount
```

In [22]:
```
age=20
s="adult" if age>=18 else "minor"
print(s)
```

```
adult
```

In [23]:
```
number=3
match number:
  case 1:
      print('one')
  case 2|3:
      print('two or three')
  case _:
      print('other numbers')
```

```
two or three
```

In [24]:
```
j_angry=True
s_angry=True
if(j_angry & s_angry==True):
    print('you are in trouble')
else:
    print('you are not in trouble')
```

```
you are in trouble
```

In [27]:
```
a=10
if a>100:
    print('Big')
else:
    print('Number')
```

```
Number
```

In [28]:
```
a=101
if a>100:
    print('Big')
else:
    print('Number')
```

```
Big
```

In [29]:
```
n=15
r=n%2
if r==0:
    print('True')
else:
    print('False')
```

```
False
```

In [30]:
```
n=14
r=n%2
if r==0:
    print('True')
```

```
else:
    print('False')
```

```
True
```

In [40]:
```
a=5
b=2
c=3
if a>=b and a>=c:
    print(a)
elif b>=a and b>=c:
    print(b)
elif c>=a and c>=b:
    print(c)
```

```
5
```

In [33]:
```
a=int(input("enter number"))
b=int(input("enter number"))
c=int(input("enter number"))
if(c==1):
    print(a+b)
elif(c==2):
    print(b-a)
elif(c==3):
    print(a*b)
else:
    print('invalid')
```

```
60
```

In [ ]:
```

```