# **Conditional Statements....**

```
In [ ]:
```

```
--> For decision making purpose..
--> We use these statements when we want to execute a block of code when the given condition is true or false....
--> 4 types of conditional statements
1.if
2.if-else
3.elif
4.nested-if
```

```
In [ ]:
```

```
if: if statement checks for a given condition,
   if the given condition is true, then the set of code
   present inside the block will be executed...

if syntax:

   if(condition): (True)
        statements
        statements
```

#### In [1]:

```
# static way
a=45
b=56
if b>a: # 56>45--> (True)
    print("b is greater than a")
```

b is greater than a

#### In [4]:

```
# dynamic way
a=int(input('Enter 1st number: '))
b=int(input('Enter 2nd number: '))
if(b>a):
    print("b is greater than a")
```

Enter 1st number: 45 Enter 2nd number: 78 b is greater than a

#### In [ ]:

```
# i/p: 6
# o/p: postive number
```

```
In [13]:
a=int(input())
if(a>0):
    print(a,"is postive number")
9 is postive number
In [15]:
n1 = int(input())
n2 = int(input())
if n1 > n2:
    print("{0} is greater than {1}".format(n1,n2))
56
12
56 is greater than 12
In [ ]:
if-else: The statement itself tells that if a given condition
    is true then execute the statements present inside of
    block and if the condition is false then execute else block
if-else syntax:
    if(condition):
                    (True)
        statements
    else:
        statements
In [17]:
# i/p: 6
                   7
# o/p: even
                   odd
n=int(input('Enter number: '))
              # 6%2==0(True)
                               7%2==0(false)
if(n%2==0):
    print("Even")
else:
    print("Odd")
Enter number: 7
Odd
In [ ]:
```

# elif statement : to check one or more conditions

```
In [ ]:
```

## In [20]:

```
# maximum of 3 numbers
a=int(input())  # 45
b=int(input())  # 78
c=int(input())  # 23
if(a>b and a>c):  # 45>78(F ) and 45>23(T)--> F
    print(a, "is the biggest number")
elif(b>c):  # (78>23)--> (True)
    print(b, "is the biggest number")
else:
    print(c, "is the biggest number")
```

45237878 is the biggest number

### In [ ]:

#### In [24]:

```
n=int(input())
if(n%2==0):
    print("even")
    print(n**2)
else:
    print("Odd")
    print(n**3)
```

8 even 64

```
In [ ]:
```

```
0-sunday
1-monday
2-tuesday
3-wednesday
4-thursday
5-friday
6-saturday
above 7-- invalid input

# i/p: 6
# o/p: saturday
```

# In [28]:

```
n=int(input()) # 3
           # 3 == 0(F)
if(n==0):
    print("sunday")
elif(n==1): # 3==1(F)
    print("monday")
elif(n==2):
             # 3==2(F)
    print("tuesday")
elif(n==3): # (3==3) (T)
    print("wednesday")
elif(n==4):
    print("thursday")
elif(n==5):
    print("friday")
elif(n==6):
    print("saturday")
else:
    print("invalid input")
```

3 wednesday

#### In [ ]:

```
# Nested if syntax:

if(condition):
    if(condition):
        statements
    else:
        statements
else:
        statements
```

#### In [ ]:

## In [8]:

```
n=int(input())
if(n%2==0): # 4%2==0(T)
    # print("Even")
    if(n>10): # 4>10(F)
        print("even",n**2)
    else:
        print("even",n**3)
else:
    print("Odd")
```

24 even 576

# In [ ]:

```
i/p:
    user id : 100 to 200 ----> 101
    pwd: enter password ----fixed pwd

    password fixed---- 5673

o/p: Welcome
o/p: Invalid password

I/P: 67
o/p: Invalid userid
```

## In [ ]:

## In [ ]: