In [4]:
```
#Tell the output of this program
name="surendra"
if name=="surendra":
    print('thank you')
```

```
thank you
```

In [5]:
```
#Tell the output of this program
num=10
num1=10
if 'num' is 'num1':
    print('same')
else:
    print('differ')
```

```
differ

<>:3: SyntaxWarning: "is" with a literal. Did you mean "=="?
<>:3: SyntaxWarning: "is" with a literal. Did you mean "=="?
C:\Users\ashru\AppData\Local\Temp\ipykernel_4172\1561356444.py:3: SyntaxWarni
ng: "is" with a literal. Did you mean "=="?
  if 'num' is 'num1':
```

In [13]:
```
#Tell the output
age=10
if age=="10":
    print('thank you')
```

In [14]:
```
#Tell the output of this program

age=10
if age=="10":
    print('thank you')
    print('thank you')


```

In [15]:
```
#Tell the output of this program
age=10
if age=="10":
    print('thank u1')
print('thank u2')
```

```
thank u2
```

In [19]:
```
#Tell the output of this program
age=10
if age=="10":
    print('thank you1')
    print('thank you2')
print('thank you')
```

```
thank you
```

In [ ]:
```

```

In [22]:
```
#Tell the output of this program
age='10'
if age=="10":
        print('thank you1')
        print('thank you2')
print('thank you')
```

```
thank you1
thank you2
thank you
```

In [24]:
```
#Tell the output of this program
name="surendra"
if name:
    print('thank you')
    print('thank you1')
print('thank you2')
```

```
thank you
thank you1
thank you2
```

In [26]:
```
#Tell the output of this program
name=10
if name:
    print('thank you1')
    print('thank you2')
print('thank you3')
```

```
thank you1
thank you2
thank you3
```

In [27]:
```
#Tell the output of this program
name=None
if name:
    print('thank you1')
    print('thank you2')
print('thank you3')
```

```
thank you3
```

In [29]:
```
#Tell the output of this program
x=-90
if x:
    print('thank you1')
    print('thank you2')
print('thank you3')
```

```
thank you1
thank you2
thank you3
```

In [30]:
```
#Tell the output of this program
x=0
if x:
    print('thank you1')
    print('thank you2')
print('thank you3')
```

```
thank you3
```

In [31]:
```
#Tell the output of this program
x=True
if x:
    print('thank you1')
    print('thank you2')
print('thank you3')
```

```
thank you1
thank you2
thank you3
```

In [32]:
```
#Tell the output of this program
x=False
if x:
    print('thank you1')
    print('thank you2')
print('thank you3')
```

```
thank you3
```

Type *Markdown* and LaTeX: $\alpha^2$

In [34]:
```
#Tell the output of this program
x,y=10,20
if x==y:
    print('thank you1')
    print('thank you2')
print('thank you3')
```

```
thank you3
```

In [35]:
```
#Tell the output of this program
x=-0
if x:
    print('thank you1')
    print('thank you2')
print('thank you3')
```

```
thank you3
```

In [36]:
```
#Tell the output of this program
x=''
if x:
    print('thank you1')
    print('thank you2')
print('thank you3')
```

```
thank you3
```

In [37]:
```
#Tell the output of this program
x=' '
if x:
    print('thank you1')
    print('thank you2')
print('thank you3')
```

```
thank you1
thank you2
thank you3
```

In [39]:
```
#Tell the output of this program
l=['surendra','priyanka','rahu','zini']
if 'Priyanka' in l:
    print('available')
```

In [42]:
```
#Tell the output of this program
l=['surendra','priyanka','rahu','zini']
if 'priyanka' in l:
    print('available')
```

```
available
```

In [43]:
```
#Tell the output of this program
l=['surendra','priyanka','rahu','zini']
if not ('priyanka' not in l):
    print('available')
```

```
available
```

In [ ]:
```
#if else
```

In [44]:
```
#Tell the output of this program
l=['surendra','priyanka','rahu','zini']
if 'dev' in l:
    print('available')
else:
    print('not available')
```

```
not available
```

In [45]:
```
#Tell the output of this program
num=10
if num:
    print('surendra')
else:
    print('priyanka')
```

```
surendra
```

In [46]:
```
#Tell the output of this program
num=10
if (if type(num)=='int'):
    print('surendra')
else:
    print('priyanka')
```

```
  Cell In[46], line 2
    if (if type(num)=='int'):
        ^
SyntaxError: invalid syntax
```

In [47]:
```
#find out the output of this program
num=10
if if type(num)=='int':
    print('surendra')
else:
    print('priyanka')
```

```
  Cell In[47], line 2
    if if type(num)=='int':
       ^
SyntaxError: invalid syntax
```

In [48]:
```
#find out the output of this program
num=10
if  type(num)=='int':
    print('surendra')
else:
    print('priyanka')
```

```
priyanka
```

In [49]:
```
#find out the output of this progra
num=10
if  type(num)==int:
    print('surendra')
else:
    print('priyanka')
```

```
surendra
```

In [51]:
```
#tell the number is positive or negative
num=10
if num>0:
    print('positive')
else:
    print('negative')
```

```
positive
```

In [52]:
```
#even or odd program
num=10
if num%2==0:
    print('even')
else:
    print('odd')
```

```
even
```

In [53]:
```
#same or differ
num=10
num1=10
if num==num1:
    print('same')
else:
    print('differ')
```

```
same
```

In [54]:
```
#same or differ
num=10
num1=10
if num is num1:
    print('same')
else:
    print('differ')
```

```
same
```

In [55]:
```
#same or differ
num=10
num1=10
if 'num'=='num1':
    print('same')
else:
    print('differ')
```

```
differ
```

In [56]:
```
#same or differ
num=10
num1=10
if 'num'=='num':
    print('same')
else:
    print('differ')
```

```
same
```

In [57]:
```
#same or differ
num=10
num1=10
if 'num' is'num':
    print('same')
else:
    print('differ')
```

```
same

<>:3: SyntaxWarning: "is" with a literal. Did you mean "=="?
<>:3: SyntaxWarning: "is" with a literal. Did you mean "=="?
C:\Users\ashru\AppData\Local\Temp\ipykernel_4172\1638888182.py:3: SyntaxWarni
ng: "is" with a literal. Did you mean "=="?
  if 'num' is'num':
```

Type *Markdown* and LaTeX: $\alpha^2$

In [58]:
```
#program to find the number is present or not
num=35
if num==10:
    print('ten')
elif num==20:
    print('twenty')
elif num==30:
    print('thirty')
else:
    print('not ten not twenty not thirty')
```

```
not ten not twenty not thirty
```

In [59]:
```
#program to find the number is present or not
num=30
if num==10:
    print('ten')
elif num==20:
    print('twenty')
elif num==30:
    print('thirty')
else:
    print('not ten not twenty not thirty')
```

```
thirty
```

In [2]:
```
#program to find the number is present or not
num=30.0
if num==10:
    print('ten')
elif num==20:
    print('twenty')
elif num==30:
    print('thirty')
else:
    print('not ten not twenty not thirty')
```

```
thirty
```

In [ ]:
```
#nested if
```

In [3]:
```
#find out the output
age=26
height=6.0
if age>=22:
    if (height>=5.7):
        print('cong!')

```

```
cong!
```

In [5]:
```
#find out the output
age=26
height=3.8
if age>=22:
    if (height>=5.7):
        print('cong!')

```

In [6]:
```
#find out the output of this program
age=26
height=3.8
if age>=22:
    if (height>=5.7):
        print('cong!')
    else:
        print('your hegiht is less than 5.7')

```

```
your heiht is less than 5.7
```

In [7]:
```
#find out the output of this program
age=16
height=3.8
if age>=22:
    if (height>=5.7):
        print('cong!')
    else:
        print('your hegiht is less than 5.7')

```

In [8]:
```
#find out the output of this program
age=16
height=3.8
if age>=22:
    if (height>=5.7):
        print('cong!')
    else:
        print('your heiht is less than 5.7')
else:
    print('your age is less than 22')

```

```
your age is less than 22
```

In [ ]:
```
#Dynamic input
```

In [9]:
```
name=input('enter your name')
print(name)
```

```
enter your nameashru
ashru
```

In [10]:
```
#find the sum of two number using dynamic input
a=input('enter a number for a: ')
b=input('enter a number for b: ')
sum=a+b
print(sum) #when we don't declare the type of data then bydefault it act c

```

```
enter a number for a: 10
enter a number for b: 20
1020
```

In [11]:
```
#find the sum of two  integer number using dynamic input
a=int(input('enter a number for a: '))
b=int(input('enter a number for b: '))
sum=a+b
print(sum)
```

```
enter a number for a: 10
enter a number for b: 46
56
```

In [12]:
```
#find the sum of two  float number using dynamic input
a=float(input('enter a number for a: '))
b=float(input('enter a number for b: '))
sum=a+b
print(sum)
```

```
enter a number for a: 21
enter a number for b: 37
58.0
```

In [13]:
```
#find the sum of two  integer number using dynamic input
a=int(input('enter a number for a: '))
b=(input('enter a number for b: '))
sum=a+b
print(sum)
```

```
enter a number for a: 23
enter a number for b: 24
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[13], line 3
      1 a=int(input('enter a number for a: '))
      2 b=(input('enter a number for b: '))
----> 3 sum=a+b
      4 print(sum)

TypeError: unsupported operand type(s) for +: 'int' and 'str'
```

In [14]:
```
#find the sum of two  integer number using dynamic input
num1=int(input(''))
num2=int(input(''))
print(num1+num2)
```

```
32
21
53
```

In [15]:
```
#wap to find out the value of two number using choice
num1=int(input('enter the value of a: '))
num2=int(input('enter the value of b: '))
choice=input('enter a choice[+-*/]')
if choice=='+':
    print(num1+num2)
elif choice=='-':
    print(num1-num2)
elif choice=='*':
    print(num1+num2)
elif choice=='/':
    print(num1+num2)
else:
    print('invalid option')
```

```
enter the value of a: 23
enter the value of b: 34
enter a choice[+-*/]+
57
```

In [1]:
```
#wap to find out the value of two number using choice
num1=int(input('enter the value of a: '))
num2=int(input('enter the value of b: '))
choice=input('enter a choice[+-*/]')
if choice=='+':
    print(num1+num2)
elif choice=='-':
    print(num1-num2)
else:                                #we cant use else after the elif coditio
    print('invalid option')
elif choice=='*':
    print(num1+num2)
elif choice=='/':
    print(num1+num2)

```

```
  Cell In[1], line 11
    elif choice=='*':
    ^
SyntaxError: invalid syntax
```

In [17]:
```
#print u r name 5 times in while loop
i=1
while i<=5:
    print('ashru')
    i=i+1
```

```
ashru
ashru
ashru
ashru
ashru
```

In [18]:
```
#find out the output of this program
i=1
while i<=5:
    print('ashru')
    i=i+1
print(i)
```

```
ashru
ashru
ashru
ashru
ashru
6
```

In [2]:
```
#print the id of ur name
i=1
while i<=5:
    print(id(i))
    print('ashru')
    i=i+1
print(i)
```

```
140715842507560
ashru
140715842507592
ashru
140715842507624
ashru
140715842507656
ashru
140715842507688
ashru
6
```

In [20]:
```
#print ur name in descending order
i=5
while i>=1:
    print('ashru')
    i=i-1
print(i)
```

```
ashru
ashru
ashru
ashru
ashru
0
```

In [21]:
```
#Find the output of this program
i=1
while i<=20:
    print('ashru')
    i=i+3
```

```
ashru
ashru
ashru
ashru
ashru
ashru
ashru
```

In [23]:
```
#Find the output of this program
i=1
while i>=5:
    print('ashru')
    i=i-1
print(i)
```

```
1
```

In [25]:
```
#Find the output of this program
i=1
while i<=20:
    print(i)
    i=i+3
```

```
1
4
7
10
13
16
19
```

In [31]:
```
#Find the output of this program
i=1
while i<=10:
    if i%2==0:
        print(i)
    i=i+1
```

```
2
4
6
8
10
```

In [32]:
```
#wap to print the number  which is not divisible by 1 to 10
i=1
while i<=10:
    if i%2!=0:
      print(i)
    i=i+1
```

```
1
3
5
7
9
```

In [34]:
```
#print the pattern
*
**
***
****
*****
i=1
while i<=5:
     print(i*'*')
     i=i+1
```

```
*
**
***
****
*****
```

In [37]:
```
#print the pattern
*****
****
***
**
*
i=5
while i>=1:
     print(i*'*')
     i=i-1
```

```
*****
****
***
**
*
```

In [38]:

```
#find out the output of this code
i=1
while i<=5:
    print(i*i)
    i=i+1
```

```
1
4
9
16
25
```