

## variables

----> a variable is a name that store the value ,value is data type(int,float,bool,string)

--->variable is mutable we can change

---> variable cannot start with digits

---> special characters are not allowed only "\_" is allowed

--->variable cannot be a python keyword

--->variables are case sensitive

## syntax

```
In [7]:  # variable_name=value
```

```
In [8]:  age=25
         print(age)
```

25

```
In [9]:  name='akshitha'
         print(name)
```

akshitha

```
In [10]: price=19.5
         print(price)
```

19.5

```
In [12]: is_active=True
         print(is_active)
```

True

In [15]:  *# storing the value 10 in variable X*

```
x=10
#printing the value x
print(x)
```


10

In [16]:  *# assigning values to variables*

```
a=5
b=3
# adding two variables and storing the result in result

result=a+b
# printing the result
print(result)
```

8

In [17]:  *# changing the value of a variable*  
*# assignning values to a variables*


```
score=100
print(score)

# changing the value of a score
score=200
print(score)
```


100

200

## concatinating strings

In [20]:  `first_name='Akshitha'`  
`last_name='Permandla'`  
`full_name=first_name+" "+last_name`  
`print(full_name)`

Akshitha Permandla

In [22]:  `length=10`  
`breadth=20`  
`area=length*breadth`  
`print(area)`

200

```
In [24]: ▶ first_name='Akshitha'
last_name='Perumandla'
country='india'
city='Telangana'
age=21
is_married=False
skills=['HTML','CSS','JS','React','Python']
person_info={
    'first_name':'Akshitha',
    'last_name':'Perumandla',
    'country':'america',
    'city':'Nalgonda',
}

# printing the values stored in the variables

print("first name:",first_name)
print("last name:",last_name)
print('first_name_length:',len(first_name))
print('country:',country)
print('city:',city)
print('age:',age)
print('married:',is_married)
print("skills:",skills)
print("personal information:",person_info)
```

```
first name: Akshitha
last name: Perumandla
first_name_length: 8
country: india
city: Telangana
age: 21
married: False
skills: ['HTML', 'CSS', 'JS', 'React', 'Python']
personal information: {'first_name': 'Akshitha', 'last_name': 'Perumandla',
'country': 'america', 'city': 'Nalgonda'}
```

```
In [26]: ▶ # declaring multiple variables in one line

first_name,last_name,country,age="akshitha","perumandla",'nalgonda',28
print(first_name,last_name,city,age)
print("first_name:",first_name)
print("last_name:",last_name)
print("country:",country)
print('age:',28)
```

```
akshitha perumandla Telangana 28
first_name: akshitha
last_name: perumandla
country: nalgonda
age: 28
```

In [ ]: ▶