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Variable

Variable in python is like a box, where we can store our stuff, similary in variable, we can store our value.

In [2]:
```
#Example
a=2 # a is variable and stored value is 2
print(a)
```

```
2
```

In [3]:
```
type(a)
```

Out[3]:
```
int
```

In [4]:
```
#variable can be changed or updated
a=3 # at first a was 2, now it is 3
print(a)
```

```
3
```

In [5]:
```
#varibale not only integer (without decimal), variable can be string as well as float
c=2.5
d="Ram"
```

In [6]:
```
type(c)
```

Out[6]:
```
float
```

In [7]:
```
type(d)
```

Out[7]:
```
str
```

In [8]:
```
#lets do basic Practice
#John smith is new patient in hospital and his age is 20. Now put this in variable.
name="John Smith"          #string variable
age=20   #integer variable
is_newpatient=True      #boolean
```

Input

In [9]:
```
#input function ask user to input the value instead of defining by us or default value
name=input("What is your name? ")
age=int(input("Your age: "))  #int before input only accepts integer value for age
print("Hello", name, "your age is", age)
```

```
What is your name? shyam
Your age: 21
Hello shyam your age is 21
```

In [1]:
```
name=input("What is your name?\n")
age=int(input("Your age: "))
```

```
What is your name?
shyam
Your age: 21
```

In [2]:
```
#In above code, we put \n - this will ask user to provide input in next line.
```

String Concatenate

In [1]:
```
a="Ram"
b="Sita"
print(a+b)
```

```
RamSita
```

In [3]:
```
#if space needed?
a="Ram"
b="Sita"
print(a+" "+b)
```

```
Ram Sita
```

In [4]:
```
#can we cocatenate number and string?
a="Ram"
b=2
```

```
print(a+b)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[4], line 4
      2 a="Ram"
      3 b=2
----> 4 print(a+b)

TypeError: can only concatenate str (not "int") to str
```

In [5]:
```
#No, it will throw error so we have to change int 2 to string it is called Typecasting
a="Ram"
b=2
print(a+str(b))
```

```
Ram2
```

In [ ]:
```
#We can see about typecasting in another tutorial file- Type Conversion.
```

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