In [1]:
```
# Question: Print your name
print('My name is Innomatics')
```

```
My name is Innomatics
```

In [2]:
```
# Question: What is a variable? Write a Few words about Variables. Create aV
# Answer
# Variable is a temporary name given to the memory location
```

In [3]:
```
# Variables should start with alphabets or underscore
# Variables should not start with numbers and special characters
# Variables can be a mixture of alphabets and numbers
# Variables are case-sensitive
```

In [4]:
```
# Examples
a=23
b=35
a+b
```

Out[4]:
```
58
```

In [5]:
```
A+b # variable is case sensitive
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-5-cb966cc189c6> in <module>
----> 1 A+b # variable is case sensitive

NameError: name 'A' is not defined
```

In [6]:
```
a_123=55      # mixture of alphabets and numbers
b_123=65
a_123+b_123
```

Out[6]:
```
120
```

In [7]:
```
#Question:Assume that we execute the following assignment statements:width=
# For each of the following expressions, write thevalue of the expression an
# 1. width/2   2. width/2.0   3. height/3   4.  1 + 2 * 5    5.  delimiter *
# Answer
width=17
height=float(12.0)
delimiter=str('.')
result="1. width/2 = {} 2. width/2.0 = {} 3. height/3 = {} 4. 1+2*5 = {} 5.d
result.format(width/2,width/2.0,height/3,1+2*5,delimiter*5)
```

Out[7]:
```
'1. width/2 = 8.5 2. width/2.0 = 8.5 3. height/3 = 4.0 4. 1+2*5 = 11 5.delimite
r*5 = .....'
```

In [8]:
```
width=17
height=float(12.0)
delimiter=str('.')
values="{}/2 = {}\n{}/2.0 = {}\n{}/3 = {}\n1+2*5 = {}\n{}*5 = {}"
print(values.format(width,width/2,width,width/2.0,height,height/3,1+2*5,deli
```

```
17/2 = 8.5
17/2.0 = 8.5
12.0/3 = 4.0
1+2*5 = 11
.*5 = .....
```

In [9]:
```
# Question: Add two number by taking variable names as first and seccond
a=int(input("first number is:"))
b=int(input("second number is:"))
print("Addition of two numbers are :",a+b)
```

```
first number is:100
second number is:200
Addition of two numbers are : 300
```

In [10]:
```
# Question: Add your first name and second name
a=input("My first name is :")
b=input("My second name is :")
print("My full name is : ",a+b)
```

```
My first name is :Sachin
My second name is :Tendulkar
My full name is :  SachinTendulkar
```

In [11]:
```
# Question: print the datatypes of the following   10, '10', True, 10.5
type(10)
```

Out[11]:
```
int
```

In [12]:
```
type('10')
```

Out[12]:
```
str
```

In [13]:
```
type(True)
```

Out[13]:
```
bool
```

In [14]:
```
type(10.5)
```

Out[14]:
```
float
```

In [15]:
```
# Question: num_int = 123     num_str = "456"   Add num_int and num_str
num_int=123
num_str=int('456')
print("Addition of 123 and 456 is :",num_int+num_str)
```

```
Addition of 123 and 456 is : 579
```

In [16]:

```
# Question: The volume of a sphere with radius r is 4/3πr3 . What is the vol
r=float(input("The Radius of the Sphere is:"))
pi=float(22/7)
volume=float(4/3*pi*r**3)
print("The Volume of the Spere is : ",volume)
```

```
The Radius of the Sphere is:5
The Volume of the Spere is :  523.8095238095237
```

In [17]:

```
# Question: Suppose the cover price of a book is Rs.24.95,but bookstores get
# Shipping costs Rs.3 for the first copy and 75 paise for eachadditional cop
# What is the total wholesale cost for 60 copies?
book_cost=24.95
discount=0.6
shipping_cost_first=3
shipping_cost_remaining=0.75
total_books=60
cost_of_books=book_cost*discount*total_books
shipping_cost=shipping_cost_first+(shipping_cost_remaining*59)
total_cost=cost_of_books+shipping_cost
print("The Total cost of all books is : ",total_cost)
```

```
The Total cost of all books is :  945.4499999999999
```

In [ ]:

```
1
```