```
In [4]:  print("Hello World")
```

Hello World

```
In [5]:  a='20' #Type str
         b="30" #Type str
         c=50 #Type int
         d=100.0 #Type float
```

Concatinated two strings using + operator and stored in combo of type String.

```
In [6]:  combo=a+b
         print("combo = ",combo)
         type(combo)
```

combo = 2030

Out[6]: str

Typecasted two String variables to Integer which was then stored in combo after summing them up.

```
In [7]:  combo=int(a)+int(b)
         print("a = ",a,"\ncombo =",combo)
         print(type(combo))
```

a = 20
combo = 50
<class 'int'>

Correct way of declaring variable

```
In [8]:  #x=500,y=1000
         x,y=500,1000
         sum=x+y;
```

```
In [10]:  a,b=500,1000
          sum=a+b;

          print("Sum = ",sum)
```

Sum = 1500

```
In [11]:  a=["Athar",100,50.8]

          print(a)
```

['Athar', 100, 50.8]

```
In [12]:  a.append(True)
          print(a)
```

['Athar', 100, 50.8, True]

```
In [13]:  a.append(5000)
          print(a)
```

['Athar', 100, 50.8, True, 5000]

```
In [14]:  a.append(True) #List can contain an element with multiple occurence
          print(a)
```

['Athar', 100, 50.8, True, 5000, True]

```
In [15]:  a.remove(True) #removes the first occurance of the element
          print(a)
```

```
['Athar', 100, 50.8, 5000, True]
```

In [16]:
```python
a.append("Hello")
print(a)
```

```
['Athar', 100, 50.8, 5000, True, 'Hello']
```

In [17]:
```python
a.pop(3)
print(a)
```

```
['Athar', 100, 50.8, True, 'Hello']
```

If no index is provided pop() removes the last element

In [18]:
```python
for i in range(0,5):
    print(a[i])
```

```
Athar
100
50.8
True
Hello
```

In [19]:
```python
for i in a:    #i traverses in the list a
    print(i)
```

```
Athar
100
50.8
True
Hello
```

In [20]:
```python
print(*a[0:])
```

```
Athar 100 50.8 True Hello
```

In [21]:
```python
print(*a, sep = " ")
```

```
Athar 100 50.8 True Hello
```

In [22]:
```python
b = "Hello World!"
print(b)
```

```
Hello World!
```

In [23]:
```python
b = "Hello World!"
print(*b)
```

```
H e l l o   W o r l d !
```

In [24]:
```python
b = "Hello World!"
print(b[2:])
print(b[2:5])
```

```
llo World!
llo
```

In [25]:
```python
for i in range(0,len(b)):
    print(b[:i])
```

```
H
He
Hel
Hell
Hello
Hello
Hello W
Hello Wo
Hello Wor
```

```
Hello Worl
Hello World
```

In [26]:
```python
if a[1]>50:
    print("Greater than")
    print(*a[0:])
elif a[1]<50:
    print("Less than")
    print(*a[0:])
else:
    print("Equal")
    print(*a[0:])
```

```
Greater than
Athar 100 50.8 True Hello
```

In [27]:
```python
i=0;
while i<10:
    i=i+1
    if(i==5):
        continue;
    if(i==8):
        break;
    print(i)
```

```
1
2
3
4
6
7
```

In [28]:
```python
for i in range(1,6):
    print(" "*(5-i),(i*2-1)*"*");

print((i*2+1)*"*");

for i in range(5,-1,-1):
    print(" "*(5-i),(i*2-1)*"*");
```

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

In [30]:
```python
def isPrime(n):
    if(n<=0):
        return False;
    for i in range(2,n//2+1):
        if(n%i==0):
            return False;
    return True;

def check():
    num=int(input("Enter the Number "))
    print(isPrime(num))

check()
```

```
Enter the Number 97
True
```

In [ ]:

In [ ]:

```
Enter the Number 97
True
```