```
Hello World
In [2]:
print("hello");
hello
variables
In [10]:
a=10;
b=10.5;
print(type(a+b))
<class 'float'>
In [4]:
print(type(a));
<class 'int'>
In [7]:
a="hello"
print(type(a));
<class 'str'>
In [8]:
d=5+4j
print(type(d));
<class 'complex'>
```

Taking input

```
In [12]:

name=input()
print("hello",name)

yash gandhi
hello yash gandhi

In [18]:

a=input("Enter your name: ");
print("hello",a); #includes space
print("hello"+a); #not include space

Enter your name: yash gandhi
hello yash gandhi
hello yash gandhi
helloyash gandhi
```

typecasting

```
In [19]:
a=input("Enter a number: ");
print("the number you entered is:",a,end=" ");
                                                  #end parameter in a function
                                                  \#by default its value is \n for print statement as
                                                  #executed every time a print statement is executed
print("type of a :",type(a))
Enter a number: 45
the number you entered is: 45 type of a : <class 'str'>
In [23]:
a=float(input("Enter a number: "))
print("the number you entered is:",a,end="\n\n")
                                                    #end parameter in a function
                                                    #by default its value is \n for print statement
and this is
                                                    #executed every time a print statement is
executed
print("type of a :", type(a))
print("the square is : "+str(a*a))
                                                 #typecasted to str again
Enter a number: 4.234
the number you entered is: 4.234
type of a : <class 'float'>
the square is : 17.926756
More on print fuction
In [31]:
print("+yash", "gandhi", "hello", "world", sep="+\n+") #seperator
+yash+
+gandhi+
+hello+
+world
In [32]:
b="harayana"
print("{0} people live in {1}".format(a,b))
45 people live in harayana
In [33]:
a = 45
b="harayana"
print("{0} people live in {1} a state in {2}".format(a,b,c))
45 people live in harayana a state in india
In [38]:
print("hello %d people of %s living in %s"%(a,b,c))
hello 45 people of harayana living in india
```

Operators

```
In [48]:
a=10;
b=3;
print(a/b, type(a/b))
                               #floating point returned
print(a//b, type(a//b))
                               #integer division
3.3333333333333335 <class 'float'>
3 <class 'int'>
In [45]:
print("hello",45)
                          #but print("hello "+ 45) is invalid statement
hello 45
In [55]:
a=77
print("%0.4f"%(a//b))
print("%0.4f"%(a/b))
1.0000
1.2031
In [56]:
print(a**b)
762829668081680641
4
In [57]:
print(a%b)
13
In [63]:
a,b,c=10,"hello",30.23 #multiple variable assignment
print("%0.2f"%(a+c),"times "+b+" to you")
40.23 times hello to you
comments
In [64]:
#hello world
"""multiline
cceniewiunfvrv
cmevm"""
string="""multiline
cceniewiunfvrv
cmevm"""
```

multiline

print(string)

```
cceniewiunfvrv
cmevm
```

In [69]:

Out[69]:

'multiline\ncceniewiunfvrv\ncmevm'

more on operators

In [71]:

```
raining=True  #T is capital
temp=27
out=not raining and temp>45
print(out)

out=not raining and temp==27
print(out)

out=raining and temp>45
print(out)

out=raining and temp>45
print(out)
```

False False True

In [72]:

```
raining=True  #T is capital
temp=27
out=not raining or temp>45
print(out)

out=not raining or temp==27
print(out)

out=raining or temp>45
print(out)

out=raining or temp>45
print(out)
```

False True True

True