In [1]: print("hello world") hello world In [2]: Print("hello world") #python is case-sensitive NameError Traceback (most recent call last) Cell In[2], line 1 ----> 1 Print("hello world") NameError: name 'Print' is not defined In [3]: print(hello world) #it should be in inverted comma for string Cell In[3], line 1 print(hello world) #it should be in inverted comma **SyntaxError:** invalid syntax. Perhaps you forgot a comma? In [4]: print(10) 10 In [5]: print(10.7) 10.7 ;agvvshvhvsvhsgh In [6]: ###;agvvshvhvsvhsgh #keep the cursor on in[] and press m and run that -----NameError Traceback (most recent call last) Cell In[6], line 1 ----> 1 agvvshvhvsvhsgh("#keep the cursor on in[] and press m and run that") NameError: name 'agvvshvhvsvhsgh' is not defined sgssvghvshh printhello sbhsb shbshh shhsjhj In [10]: #sjsbj jhsjsjs bjsbjbsj ahhsj In [11]: ### 1.variable name should not have space First name= "alok singh" Cell In[11], line 2 First name= "alok singh" SyntaxError: invalid syntax In [13]: ### 2.variable name should start with A-Z ,a-z or _ First name= "alok singh" Cell In[13], line 2 First name= "alok singh" SyntaxError: invalid syntax In [14]: First name= "alok singh" Cell In[14], line 1 First name= "alok singh" SyntaxError: invalid syntax In [15]: First name="alok singh" Cell In[15], line 1 First name="alok singh" SyntaxError: invalid syntax In [16]: First name="aloksingh" Cell In[16], line 1 First name="aloksingh" SyntaxError: invalid syntax In [17]: Firstname="alok singh" name="alok" _name="alok" In [18]: Firstname="alok singh" name="alok" _name="alok" In [19]: #variable name shoud not start with number but number cam be present anywhere In [20]: #and only allowed speacial charater is _ in variable Data types In [21]: **x=10.5** type(x) Out[21]: In [22]: **y=10** type(y) Out[22]: int In [23]: **z=True** #use capital T type(z) Out[23]: bool In [24]: x=10 #it will be executing only last line type(x) Χ Out[24]: **10** In [25]: x, type(x) Out[25]: (10, int) In [26]: x,y=10,20 Χ У 20 Out[26]: In [27]: x,y Out[27]: (10, 20) In [28]: y,x Out[28]: (20, 10) Data type conversion (1) implicit-> python interpretor without programmer's intervention (2) explict ->user-defined ->casting In [29]: #implicit conversion # int and float x=1.5y=3 Z=X*ytype(z) float Out[29] In [30]: **x="data"** y**=**1.5 z=x*y type(z) Traceback (most recent call last) **TypeError** Cell In[30], line 3 1 x="data" y=1.5----> 3 z=x*y 4 type(z) TypeError: can't multiply sequence by non-int of type 'float' In [31]: x=20 y=10 z=x/ytype(z) float Out[31]: In [32]: **Z** Out[32]: In [33]: #explicit conversion x="2" y=1.5z=x+ytype(z) TypeError Traceback (most recent call last) Cell In[33], line 4 2 x="2" y=1.5----> 4 z=x+y 5 type(z) TypeError: can only concatenate str (not "float") to str In [34]: z=int(x)+yZ Out[34]: type casting int(),float(),bool() ,str() In [35]: int-> float ->possible int->bool ->possible int ->string->possible Cell In[35], line 1 int-> float ->possible SyntaxError: invalid syntax In [36]: **x=5** str(x) Out[36]: In [37]: **x=0** bool(x) False Out[37]: