**VARIABLES IN PYTHON** By Sudhanshi Name = "Honey" In [2]: Items= 94 In [3]: print(Name) print(Items) Honey 94 type(Name) Out[4]: str type(Items) Out[9]: int In [10]: x=20.25 type(x) Out[10]: float In [11]: x= 19j type(x) Out[11]: complex Note 2: Variable without defining a value In [12]: Skills Traceback (most recent call last) <ipython-input-12-9ca61796c269> in <module> ----> **1** Skills NameError: name 'Skills' is not defined Note 3: Variables name can't start with numbers 1skills = "SQL", "Excel", "Python" File "<ipython-input-7-98c693274bbe>", line 1
1skills = ["SQL", "Excel", "Python"] SyntaxError: invalid syntax skills = ["SQL", "Excel", "Python"] print(skills) ['SQL', 'Excel', 'Python'] Note 4: Can't use lower case if Variable start with upper case Language="Python", "is", "a", "programming", "language" print(language) Traceback (most recent call last) NameError <ipython-input-13-1e7a1da87e97> in <module> 1 Language="Python","is","a","programming","language"
----> 2 print(language) NameError: name 'language' is not defined In [14]: var = "Data Analyst" print(var.upper()) DATA ANALYST In [69]: print(var.lower()) data analyst rstrip removes trailing characters and spaces string.rstrip(characters) text = "Strawberryeeeeeesssssss" print(text.rstrip('es')) Strawberry In [73]: text ="I have a car print(text.rstrip()) I have a car new\_text=(text.rstrip()) In [79]: len(text) Out[79]: **41** In [80]: len(new\_text) Out[80]: **12** In [81]: #1strip Python is a programming language" text=" print(text) print(text.lstrip()) Python is a programming language Python is a programming language In [82]: text = "@@@@@@@@@@@@@@Honey\*\*\*\*\*\*\*\*\*\*\* print(text) print(text.rstrip('\*').lstrip('@')) @@@@@@@@@@@@@@@@Honey\*\*\*\*\*\*\*\*\*\* Honey Note 5: Python doesn't allow you to concatenate string and an integer value String1='Honey' Number = 22 Domain = '@gmail.com' In [21]: print(String1+Number+Domain) **TypeError** Traceback (most recent call last) <ipython-input-21-66070a9ba854> in <module> ---> 1 print(String1+Number+Domain) TypeError: can only concatenate str (not "int") to str In [22]: String='Honey' Number = '22'Domain = '@gmail.com' print(String+Number+Domain) Honey22@gmail.com Note 6: Change Variable values In [25]: In [26]: x**+** 12 Out[26]: **25** In [27]: Out[28]: **38** Out[29]: 64 In [31]: Out[31]: **45** In [32]: print(x) 20 Note 7: Underscore ( \_ ) is used when we don't need to add new value In [33]: y=30 z=15 (y+z)/5 Out[37]: 9.0 Out[38]: **29.0** In [39]: \_ + 80 Out[39]: **109.0** type((y+z)/5)Out[40]: float Note 8: Slicing string [start:end:step] string="I want to become a Data Analyst" In [42]: print(string) I want to become a Data Analyst string = "sudhanshi" In [44]: print(string[10]) Traceback (most recent call last) <ipython-input-44-2deb6beb6ab1> in <module> ----> 1 print(string[10]) IndexError: string index out of range In [51]: newstring="I want to become a Data Analyst" print(newstring[19:23]) print(newstring[19:23:5]) D print(newstring[-12:]) Data Analyst print(newstring[-12:-8]) Data len(newstring) Out[57]: **31** In [62]: string= "I want to become a Data Analyst" len\_string = len(string) string[24]

Out[62]: 'A'

In [63]:

In [65]:

In [66]:

In [67]:

In [ ]:

Out[65]: 'i'

Note 9:Strings are immutable

<ipython-input-66-1810d0e71f20> in <module>

**TypeError**: 'str' object does not support item assignment

Traceback (most recent call last)

A = 'Rohit'

A[3:]="an"

A="Rohan" print(A)

Rohan

----> 1 A[3:]="an"

a=[5,1,3,4,4,5,6,7] b=[3,3,5,5,1,7,2]

A[3]