Date :- 18-05-2020
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Course :- Python
USN :- 4NL16EC032
Topic :- The Basics :- small program, Data types, Operations with numbers, functions & conditionals.
semester :- 6th, B sec.

GitHub Repository :- Krishna-Swetha

1) Course Introduction
2) How to Contact your Instructor
3) Preview of the 10 Apps

IDE - APP

-> Python 3 and the Visual studio code IDE is used in the videos, but you can use any IDE.
-> the python interactive shell (shown with >>>) is a quick way to execute python code to see how it works
-> Python programs are written in .py files
-> You can make a program that shows the current date & time using these lines of code :-

```
import datetime
x = datetime.datetime.
Print(x)
```

-> Integers are for representing whole numbers :

```
rank = 20
Mango = 10
People = 9
```

-> Floats represent continuous values :-

```
temperature = 10.2
rainfall = 5.98
elevation = 1031.88
```

-> Strings represent any text.

```
message = "welcome to
name = "Swetha"
Serial : "R001991981sw
```

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-> Lists represent arrays of values that may change during the course of the program.

```
numbers = [" Sim Soory"
Pixel_values = [252, 2
```

-> Dictionaries represent pairs of key & values:

```
Phone_number = {" John.
Volcano_elevations = {.
```

-> keys of a dictionary can be extracted with:

```
Phone_numbers.values()
```

-> Tuples represent arrays of values that are not to be changed during the course of the program:

```
Vowels = ('a', 'e', 'i', 'o', 'u')
one_digits = (0, 1, 2, 3, 4)
```

-> To find out what attributes a type has:-

```
dir(str), dir(list), dir(dict)
```

-> To find out what python builtin functions there are:

```
dir(__builtins__)
```

-> Documentation for a python command can be found with:

```
help(str)
help(str.replace)
help(dict.values)
```

-> Lists, strings & tuples have a positive index system:

```
["Mon", "Tue", "wed", 'Tho', 'Fri', 'SAT', 'SUN']
  0      1      2      3      4      5      6
```

-> And a negative index system:-

```
["Mon", "Tue", "wed"
 -7     -6     -5
```

-> In a list, the 2nd, 3rd & 4th items can be accessed with.

```
days[1:4]
```

Output: ["Tue", 'wed'