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✓ 1) Explain About Data types?

- Python Data types are the classification or categorization of data items.
- Python Data Types are used to define the type of a variable.
- It represents the kind of value that tells what operations can be performed on a particular data Data types is classified into 2 types
 - Basic
 - Advanced
- Basic : Basic Datatypes are As follows.
 - int(integer).
 - Float (Decimals).
 - Complex(combination of Real No. and imaginary No.)

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✓ 2) Explain about int with examples?

- INTEGER.
 - integers are the collection of whole numbers and negative numbers.
 - Similar to whole numbers, integers also does not include the fractional part.
 - Thus, we can say, integers are numbers that can be positive, negative or zero, but cannot be a fraction.

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#Examples.

```
## int
```

```
ram = 246
ravan = 212
shiva = 9696
hari = 88689
print(ram)
print(ravan)
print(shiva)
print(hari)
```

```
↵ 246
    212
    9696
    88689
```

```
print(type(ram))
```

```
↵ <class 'int'>
```

```
print(type(ravan))
```

```
↵ <class 'int'>
```

```
print(type(shiva))
```

```
↵ <class 'int'>
```

```
print(type(hari))
```

```
&#x2192; <class 'int'>
```

▼ 3) Explain about float with examples?

- Float.
 - The float data types are used to store positive and negative numbers with a decimal point.
 - Floating point numbers are decimal values or fractional numbers like 64983.5, 8578.48 75980.8 .

```
rajamouli = 966.7  
sukumar = 567.98  
prashanthvarma = 433.5
```

```
print(prashanthvarma)
```

```
&#x2192; 433.5
```

```
print(sukumar)
```

```
&#x2192; 567.98
```

```
print(rajamouli)
```

```
&#x2192; 966.7
```

```
print(type(sukumar))
```

```
&#x2192; <class 'float'>
```

```
print(type(rajamouli))
```

```
&#x2192; <class 'float'>
```

```
print(type(prashanthvarma))
```

```
&#x2192; <class 'float'>
```

▼ 4) Explain about complex with examples?

- Complex.
 - Python complex() function returns a complex number (real + imaginary) example (5+2j) when real and imaginary parts.
 - it also converts a string to a complex number.

1. List item 2. List item

```
b=83+1j
```

```
a=8+2j  
print(a)  
print(type(a))
```

```
&#x2192; (8+2j)  
<class 'complex'>
```

