1.Find the data type of a if a=9

```
In [ ]: a = 9

print(a, " is of type", type(a))
```

ans: 9 is of type <class 'int'>

2. Find the data type of a if a=9

```
In [ ]: a = 9

print(a, " is of type", type(a))
```

ans: 9 is of type <class 'int'>

3. Find the data type of a if a='9.'

```
In [ ]: a = '9.'

print(a, " is of type", type(a))
```

ans: 9. is of type <class 'str'>

4. Find the data type of a if a=(9)

```
In [ ]: a = (9)

print(a, " is of type", type(a))
```

ans:9 is of type <class 'int'>

5. Find the data type of a if a=False

```
In [ ]: a = False

print(a, " is of type", type(a))
```

ans: False is of type <class 'bool'>

6. Find the data type of a if a=[1,2,3]

```
In [ ]: a = [1,2,3]

print(a, " is of type", type(a))
```

ans:[1, 2, 3] is of type <class 'list'>

7. Find the data type of a if a=(1,2,3)

```
In [ ]: a = (1,2,3)

print(a, " is of type", type(a))
```

ans:(1, 2, 3) is of type <class 'tuple'>

8. Find the data type of a if a={'key': 9}

```
In [ ]: a = {'key': 9}

print(a, " is of type", type(a))
```

ans:{'key': 9} is of type <class 'dict'>

9. Find the data type of a if a=1 + 9j

```
In [ ]: a = 1+9j

print(a, " is of type", type(a))
```

ans:(1+9j) is of type <class 'complex'>

10. Set a=1 and b=2. What data type is a/b?

```
In [ ]: a = 1

b = 2
print(a/b, " is of type", type(a/b))
```

ans:0.5 is of type <class 'float'>

11. Create a dictionary numbers = {'one':1, 'two':2, 'three':3}. Pull out the number '2' by calling the key 'two' .

```
In [ ]: numbers = {'one':1, 'two':2, 'three':3}

print(numbers.get('two'))
```

12. Create a tuple with the numbers 8, 9, and 10?

```
numbers=(8,9,10)
```

1.Run the following lines of code and explain the error in your own words. Then rewrite the lines of code to run error free:

d = {one:1, two:2, three:3} d[one]

ans: invalid syntax

```
 d = {one:1, two:2, three:3}
```

14 Run the following lines of code and explain the error in your own words. Then rewrite the lines of code to run error free:

f = false not f

ans:syntax error

```
f = False
```

1.Run the following lines of code and explain the error in your own words. Then

rewrite the lines of code to run error free:

lst = [1,3,5] lst[3

ans:syntax error

```
       lst = [1,3,5]
```