Day - 03

Data type.

(iii) set. { }

sets are used to store multiple items in single Variable.

A set is a collection which is unorderded, unchangeable.

Set items - are unchangeable, but you remove items and add new items.

set = { 'yellow', 'red', blue, orange }

print (set) → 'yellow', 'red', 'blue', 'orange'.

next print (set) → red, yellow, orange, blue

The output will change atomatically so, It will very useful for the gaming process.

add.

Ex set. add ('green')

print(set) → 'red', 'yellow', 'orange', 'Green', blue

Ex.

set = {'yellow', 'blue', 'red'}

Print ('blue' in set) → output True

Joint set.

set1 = {'a', 'b', 'c'}.
set2 = {1, 2, 3}

(i) set3 = set1.union (set2)

Print (set 3) → {2, 1, 3, 'a', 'c', 'b'}

~~set~~ (ii) update method.

set3 = set1.~~●~~ update (set2).

Print (set3) → {1, 3, 'a', 'c', 'b', 2}

Dictionary

Dictionaries are used to store data values in key : value pairs.

A dictionary is a collection which is ordered, changeable and do not allow duplicate values.

```
my_data = { "name" : 'karthi',
            'model' : t
            'qualification' : 'degree
            'age' : 25 @
          }
```

print (my_data)
  └ output
```
{ 'name' : karthi', 'qualification' : degree,
                        'age' : 25 }
```

get method.

print (my_data . get ('name')
              └ output
   karthi.

Print (type (my_data)
        output └ dictonary

```python
 6    set.add('green')
 7    print(set)
 8
 9    #if condition in python
10    fruits = {"apple", "banana", "cherry"}
11    if "apple" in fruits:
12      print("Yes, apple is a fruit!")
13    else:
14        ('no')
15
16    #dictinary datatype
17    my_data={'name':'karthi',
18             'age':25,
19             'qulification':'degree'
20             }
21    print(my_data)
22    print(my_data.get('name'))
23    print(type(my_data))
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS C:\Users\abinaya> python -u "c:\Users\abinaya\Desktop\vs code\doy03_problem.py"
{'orange', 'blue', 'red', 'green', 'yellow'}
Yes, apple is a fruit!
{'name': 'karthi', 'age': 25, 'qulification': 'degree'}
karthi
PS C:\Users\abinaya> python -u "c:\Users\abinaya\Desktop\vs code\doy03_problem.py"
{'green', 'blue', 'yellow', 'orange', 'red'}
Yes, apple is a fruit!
{'name': 'karthi', 'age': 25, 'qulification': 'degree'}
karthi
<class 'dict'>
PS C:\Users\abinaya>
```

powershell
Code
Code