CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
DEVANG PATEL INSTITUTE OF ADVANCED TECHNOLOGY AND RESEARCH
COMPUTER SCIENCE AND ENGINEERING

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Subject Code	:	CS341	Subject Name	:	Artificial Intelligence
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Definition – 1

Write a Python script to add a key to a dictionary.

Sample Dictionary: {0: 10, 1: 20}

Expected Result : {0: 10, 1: 20, 2: 30}

Solution – 1

```python
dictionary = {0:10, 1:20}
print("Current Dictionary is : ", dictionary)

# Adding 3rd Key to Dictionary
dictionary.update({2:30})
print("Updated Dictionary is : ", dictionary)

print("\nID - 18DCS007")
print("NAME - RUDRA BARAD")
```

Input and Output Screen Shot – 1

```python
main.py
1  dictionary = {0:10, 1:20}
2  print("Current Dictionary is : ", dictionary)
3
4  # Adding 3rd Key to Dictionary
5  dictionary.update({2:30})
6  print("Updated Dictionary is : ", dictionary)
7
8  print("\nID - 18DCS007")
9  print("NAME - RUDRA BARAD")
10 |
```

```
Current Dictionary is :   {0: 10, 1: 20}
Updated Dictionary is :   {0: 10, 1: 20, 2: 30}

ID - 18DCS007
NAME - RUDRA BARAD
>
```

Definition – 2

Q.2 Write a program to perform the following operations on lists in prolog.

1. Print member of a list

2. Write all elements of the list
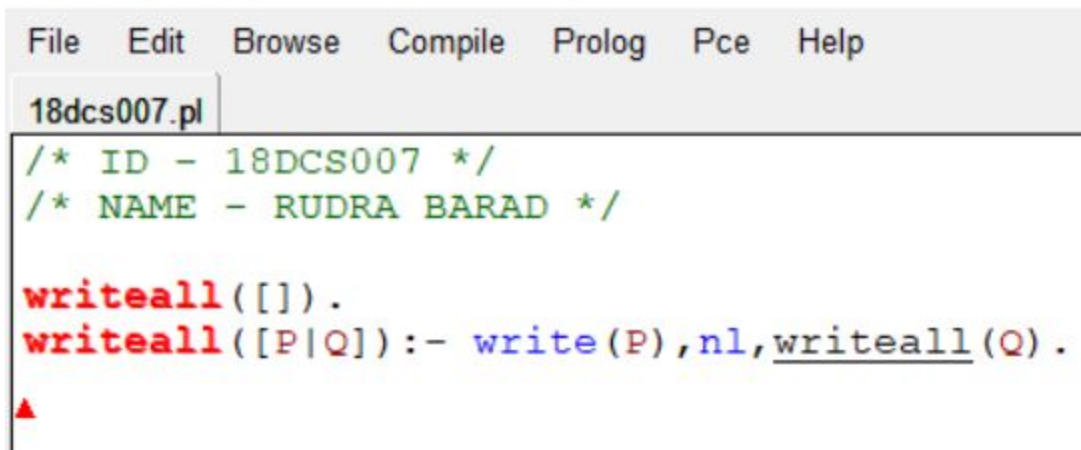
3. Membership

Solution – 2

```
/* ID - 18DCS007 */
/* NAME - RUDRA BARAD */

writeall([]).
writeall([P|Q]):- write(P),nl,writeall(Q).
```

Input and Output Screen Shot – 2

```
?-
% c:/Users/rudra/OneDrive/Desktop/AI Practical/18DCS007.pl compiled 0.00 sec, 2 clauses
?-
|    member(X,['RUDRA','BARAD','18DCS007']).
X = 'RUDRA' ;
X = 'BARAD' ;
X = '18DCS007'.

?- writeall(['RUDRA','BARAD','18DCS007',['AI','PRACTICAL']]).
RUDRA
BARAD
18DCS007
[AI,PRACTICAL]
true.

?- member('18DCS007',['RUDRA','BARAD','18DCS007']).
true.

?- █
```