



SISTER NIVEDITA UNIVERSITY



ARTIFICIAL INTELLIGENCE LABASSIGNMENT

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DEPT- BTECH (CSE), ROLL- 1027

SUBMITTED TO: MOM BANERJEE

ASSIGNMENT 1

11/09/2020 - 12/09/2020

1. WRITE DOWN SOME SIMPLE FACTS FOR THE STATEMENT USING PROLOGUE

- a) JOHN OWNS GOLD
- **b) BOB LIKES CANDY**
- e) FRUITS ARE SWEET
- owns(john, gold).likes(bob, candy).are(fruits, sweet).

OUTPUT:

```
compiling G:/CODER/Assignment.pl for byte code...
G:/CODER/Assignment.pl compiled, 2 lines read - 535 bytes written, 10 ms

yes
| ?- owns(X, gold).

X = john

yes
| ?- likes(bob, X).

X = candy

yes
| ?- are(X, sweet).

X = fruits

yes
| ?- |
```

- 2. WRITE SIMPLE FACTS AND RULES FOR CONVERTING TEMPERATURE IN C TO F. WHENEVER THE TEMPERATURE IS GREATER THAN 32 THEN IT WILL NOT CALCULATE F FURTHER.
- \triangleright c_to_f(C, F) :- C<32-> F is ((C * (9 / 5)) + 32).

```
SGNU Prolog console

File Edit Terminal Prolog Help

GNU Prolog 1.4.5 (64 bits)

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By Daniel Diaz

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| ?- change_directory('g:/CODER').

yes

| ?- ['Assignment'].

compiling G:/CODER/Assignment.pl for byte code...

G:/CODER/Assignment.pl compiled, 5 lines read - 1098 bytes written, 10 ms

yes

| ?- c_to_f(30, X).

X = 86.0

yes

| ?- c_to_f(70, X).

no

| ?-
```