

Lab 1: Introduction to Prolog

Q No. 1 Write a program to display "hello World" using SWI prolog

```
hello:-format('Hello World').
```

save this file as **HelloWorld.pl**

Now Run :

```
?- hello
```

Output

Hello World

true.

Q No. 2 _Solve the following problems using SWI prolog as per the goals given.

```
schedule(monday,programming).
```

```
schedule(tuesday,math).
```

```
schedule(tuesday,english).
```

```
schedule(wednesday,programming).
```

```
schedule(wednesday,spanish).
```

```
schedule(thursday,circuits).
```

```
schedule(friday,none).
```

```
difficulty(programming,hard).
```

```
difficulty(math,hard).
```

```
difficulty(english,easy).
```

```
difficulty(spanish,medium).
```

```
difficulty(circuits,hard).
```

classinformation(Day,Class,Diff) :-

```
schedule(Day,Class),
```

```
difficulty(Class,Diff).
```

Now run the following codes to check the results

1. `schedule(monday,programming).`
2. `schedule(monday, english).`
3. `difficulty(programming, easy).`
4. `difficulty(programming, hard).`
5. `classinformation(tuesday, Class, Diff).`
6. `classinformation(tuesday, Class, easy).`
7. `classinformation(Day, Class, hard).`
8. `classinformation(Day, english, hard).`
9. `classinformation(Day, english, easy).`