Fresher Assessment - 3

21. Write a Perl program to convert temperatures to and from Celsius, Fahrenheit.

<u>Formula:</u> c/5 = f-32/9 [where c = temperature in Celsius and f = temperature in Fahrenheit]

Output:

60°C is 140 in Fahrenheit 45°F is 7 in Celsius

22. Write a Perl program to construct the following pattern, using a nested for loop.

```
*

* *

* *

* * *

* * * *

* * * *

* * * *

* * *
```

23. Write a Perl program that prints each item and its corresponding datatype from the following array.

```
@dataarray = (1452, 11.23, undef, 'True', 'w3resource', [0, -1], {class:'V', section:'A'})
```

24. Write a Perl program which iterates the integers from 1 to 50. For multiples of three print "ABC" instead of the number and for the multiples of five print "XYZ". For numbers which are multiples of both three and five print "ABCXYZ".

```
Output:
1
2
ABC
4
XYZ
.
.
ABCXYZ (for 15) .....
```

25. Write a Perl program which takes two digits m (row) and n (column) as input and generates a two-dimensional array. The element value in the i-th row and j-th column of the array should be i*j.

Note:

```
i = 0,1.., m-1

j = 0,1, n-1.
```

Input: Rows = 3, Columns = 4

Output: [[0, 0, 0, 0], [0, 1, 2, 3], [0, 2, 4, 6]]

26. Write a Perl program to validate the password entered by users.

Validation:

At least 1 letter between [a-z] and 1 letter between [A-Z].

At least 1 number between [0-9].

At least 1 character from [\$#@].

Minimum length 6 characters.

Maximum length 16 characters

Input 1: aA1@xyz Output 1: Valid

Input 2: aA1xyz (or) aA1@ (or) 123456

Output 2: Invalid

27. Write a Perl function that accepts a string and calculate the number of upper case letters and lower case letters.

Input: 'The quick Brow Fox'

Output:

No. of Upper case characters: 3 No. of Lower case Characters: 12

28. Write a Perl function that takes a array and returns a new array with unique elements of the first array.

<u>Input:</u> (1,2,3,3,3,3,4,5) <u>Output:</u> (1, 2, 3, 4, 5)

29. Write a Perl program that accepts a hyphen-separated sequence of words as input and prints the words in a hyphen-separated sequence after sorting them alphabetically.

<u>Input:</u> green-red-yellow-black-white <u>Output:</u> black-green-red-white-yellow

30. Write a Perl program to remove an empty array(s) from a array of arrayref(s).

<u>Input:</u> [(), (), (",), ('a', 'b'), ('a', 'b', 'c'), ('d')]
<u>Output:</u> [(",), ('a', 'b'), ('a', 'b', 'c'), 'd']

Structured Query Language

Write a query for following with your own table schema assumption.

- 1) Difference between DML, DDl & DCL
- 2) Primary Vs Foreign Key
- 3) Group by and Order by
- 4) Joins(Inner/Outer/Left/Right)
- 5) Select/Insert/Update

Linux

1) List down at-least 15 Linux commands and its operation