1**.$fc=array(20,150,4,"cs"=>200,"SE"=>350,"IT"=>250,"IS"=>175,1200,"FC"=>"BAHIRDAR"); DO PHP script that display the following string from the above array "FC found at bahirdar it has 4 department,1200 students and 150 staff members the name of the department are CS,SE,IS and IT."**

<?php

$fc = array(20, 150, 4, "cs" => 200, "SE" => 350, "IT" => 250, "IS" => 175, 1200, "FC" => "BAHIRDAR");

// Extracting values from the array

$staffMembers = $fc[1]; // 150 staff members

$departmentsCount = $fc[2]; // 4 departments

$studentsCount = $fc[7]; // 1200 students

$location = strtolower($fc['FC']); // "bahirdar" in lowercase

// Extracting department names

$departments = array\_keys($fc);

$departmentNames = array\_filter($departments, function($key) {

return !is\_numeric($key);

});

$departmentList = implode(", ", $departmentNames);

// Formatting the department list for proper grammar

if (count($departmentNames) > 1) {

$lastDepartment = array\_pop($departmentNames);

$departmentList = implode(", ", $departmentNames) . " and " . $lastDepartment;

}

// Creating the formatted string

$message = "FC found at $location it has $departmentsCount department(s), $studentsCount students and $staffMembers staff members. The names of the departments are $departmentList.";

<?php

$fc = array(20, 150, 4, "cs" => 200, "SE" => 350, "IT" => 250, "IS" => 175, 1200, "FC" => "BAHIRDAR");

// Check if the keys exist before accessing them

$staffMembers = isset($fc[1]) ? $fc[1] : 0; // 150 staff members

$departmentsCount = isset($fc[2]) ? $fc[2] : 0; // 4 departments

$studentsCount = isset($fc[8]) ? $fc[8] : 200; // 200 students if index 8 is not set

$location = strtolower($fc['FC']); // "bahirdar" in lowercase

// Extracting department names

$departments = array\_keys($fc);

$departmentNames = array\_filter($departments, function($key) {

return !is\_numeric($key);

});

$departmentList = implode(", ", $departmentNames);

// Formatting the department list for proper grammar

if (count($departmentNames) > 1) {

$lastDepartment = array\_pop($departmentNames);

$departmentList = implode(", ", $departmentNames) . " and " . $lastDepartment;

}

// Creating the formatted string

$message = "FC found at $location it has $departmentsCount departments, $studentsCount students and $staffMembers staff members. The names of the departments are $departmentList.";

// Displaying the message

echo $message . "\n";

?>

**2.write a php script to test wether a number is grater than 30,20or 10 by using ternary operator?**

<?php

$number = 25; // You can change this number to test different cases

$result = ($number > 30) ? "The number is greater than 30." :

(($number > 20) ? "The number is greater than 20." :

(($number > 10) ? "The number is greater than 10." :

"The number is 10 or less."));

echo $result;

?>

**3.write a php program that can swap two variable**

<?php

// Initialize variables

$a = 5;

$b = 10;

// Display original values

echo "Before Swapping: a = $a, b = $b\n";

// Swap the variables using a temporary variable

$temp = $a;

$a = $b;

$b = $temp;

// Display swapped values

echo "After Swapping: a = $a, b = $b\n";

?>