## **QUESTION 1**

20. Write a C# program to implement a program that reads an array of filenames and searches for a specific file in the system. Further, s tore valid file names in a Directory collection and allow the user to retrieve details about a specific file.

### **Code Solution**

using System;  
using System.Collections.Generic;  
  
class Program  
{  
 static void Main()  
 {  
 string[] filenames = { "document.txt", "report.pdf", "data.csv", "image.png", "notes.txt" };  
 string searchFile = "report.pdf";  
 Dictionary<string, string> directory = new Dictionary<string, string>();  
  
 foreach (string filename in filenames)  
 {  
 directory[filename] = $"Size: 1024 bytes, Created: 2023-10-05, Type: {filename.Split('.')[1]}";  
 }  
  
 if (directory.ContainsKey(searchFile))  
 {  
 Console.WriteLine($"File found: {searchFile}");  
 Console.WriteLine($"Details: {directory[searchFile]}");  
 }  
 else  
 {  
 Console.WriteLine($"File not found: {searchFile}");  
 }  
 }  
}

### **FINAL Output**

