MILESTONE 3:-

MULTIPLE CHOICE QUESTION:

1. What will be the output of the following C# code?

1. **static** **void** Main(**string**[] args)
2. {
3. **int** i, j;
4. **int**[, ] arr = new **int**[ 3, 3];
5. **for** (i = 0; i < 3; ++i)
6. {
7. **for** (j = 0; j < 3; ++j)
8. {
9. arr[i, j] = i \* 2 + i \* 2;
10. Console.WriteLine(arr[i, j]);
11. }
12. Console.ReadLine();
13. }
14. }

a) 0, 0, 0  4, 4, 4  8, 8, 8  
b) 4, 4, 4  8, 8, 8   12, 12, 12  
c) 8, 8, 8  12, 12, 12  16, 16, 16  
d) 0, 0, 0  1, 1, 1  2, 2, 2

Answer: a  
Explanation: Since, with each value of of ‘i’ the value of ‘j’ is executed three times i.e  
for i = 0, j = 0, 0, 0, i = 1, j = 2, 2, 2.

2. Program:

Write a program in C# Sharp to create a function to input a string and count number of spaces are in the string.   
Test Data :  
Please input a string : This is a test string.  
Expected Output :  
"This is a test string." contains 4 spaces

Solution:

using System;

public class funcexer4

{

public static int SpaceCount(string str)

{

int spcctr=0;

string str1;

for (int i = 0;i < str.Length;i++)

{

str1 = str.Substring(i,1);

if (str1 == " ")

spcctr++;

}

return spcctr;

}

public static void Main()

{

string str2;

Console.Write("\n\nFunction to count number of spaces in a string :\n");

Console.Write("----------------------------------------------------\n");

Console.Write("Please input a string : ");

str2 = Console.ReadLine();

Console.WriteLine("\""+str2+"\""+" contains {0} spaces", SpaceCount(str2) );

}

}

Sample Output:

Function to count number of spaces in a string :

----------------------------------------------------