EC2010-COMPUTER PROGRAMMING

LAB-07

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REG_NO. : 2022/E/065

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QUESTION 01

Start here | Q1.cpp

```cpp
// RENUJAN J.
// 2022/E/065
// EC2010
// Group: [B]
// Lab: [07]
// Program Description: [Check whether the Enter the value is odd or even using pointers]
// Certificate of Authenticity:
// I certify that the code in the method function main of this project
// is entirely my own work.
#include <iostream>
using namespace std;

void OddorEven(int *num)
{
    if (*num%2==0)
        cout << "Even number" << endl;
    else
        cout << "Odd number" << endl;
}

int main()
{
    int number;
    cout << "Enter the number: ";
    cin >> number;

    OddorEven(&number);

    return 0;
}
```

```
Enter the number: 22
Even number

Process returned 0 (0x0)   execution time : 3.911 s
Press any key to continue.
```

```
Enter the number: 51
Odd number

Process returned 0 (0x0)   execution time : 2.125 s
Press any key to continue.
```

QUESTION 02

```cpp
// RENUJAN J.
// 2022/E/065
// EC2010
// Group: [B]
// Lab: [07]
// Program Description: [Find the length of the String your String ]
// Certificate of Authenticity:
// I certify that the code in the method function main of this projec
// is entirely my own work.
#include <iostream>
using namespace std;


int main()
{
    char str[] = "''Hello I am Programming langugae''?" ;

    char *ptr = str;
    int length = 0;

    while (*ptr != '\0')
    {
        length++;
        ptr++;
    }


    cout << "Length of the string: " << length << endl;

    return 0;
}

```

```
Length of the string: 36

Process returned 0 (0x0)   execution time : 8.813 s
Press any key to continue.
```

QUESTION 03

```cpp
// RENUJAN J.
// 2022/E/065
// EC2010
// Group: [B]
// Lab: [07]
// Program Description: [Arrays with pointers]
// Certificate of Authenticity:
// I certify that the code in the method function main of this project
// is entirely my own work.
#include <iostream>
using namespace std;


int main()
{
    double miles[10] = {240.5, 300.0, 189.6, 310.6, 280.7, 216.9, 199.4, 160.3, 177.4, 192.3};
    double gallons[10] = {10.3, 15.6, 8.7, 14, 16.3, 15.7, 14.9, 10.7, 8.3, 8.4};
    double mpg[10];

    double *ptrmiles, *ptrgallons, *ptrmpg;
    ptrmiles = miles;
    ptrgallons = gallons;
    ptrmpg = mpg;


    for (int i=0; i<10; i++)
    {
        *(ptrmpg + i) = *(ptrmiles + i) / *(ptrgallons + i);
    }

    // displaying the elements of the mpg array.

    for (int j=0; j<10; j++)
    {
        cout << "mpg[" << j << "] = " << *(ptrmpg + j) << endl;
    }

    return 0;
}
```

```
mpg[0] = 23.3495
mpg[1] = 19.2308
mpg[2] = 21.7931
mpg[3] = 22.1857
mpg[4] = 17.2209
mpg[5] = 13.8153
mpg[6] = 13.3826
mpg[7] = 14.9813
mpg[8] = 21.3735
mpg[9] = 22.8929

Process returned 0 (0x0)   execution time : 0.062 s
Press any key to continue.
```