



আন্তর্জাতিক ইসলামী বিশ্ববিদ্যালয় চট্টগ্রাম
الجامعة الإسلامية العالمية شيتاغونغ
International Islamic University Chittagong

Assignment

Course Title-Computer Programming 1 lab

Course Code: CSE- 1121

Assignment No. – 08

(Official & for FINAL TERM)

Submission date- 13.10.2020

Submitted to-

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Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

By sorowarmahabub1709vip, contest: Sheet #7 (Recursion), problem: (A) Print Recursion, **Accepted**,

```
#include<stdio.h>

void printname(int n)
{
    if(n==0)
        return;
    printf("I love Recursion\n");
    //return
    printname(n-1);
}

int main()
{
    int n;
    scanf("%d", &n);

    printname(n);
    return 0;
}

// Author: Sorowar Mahabub,
// studies B.Sc in CSE, IIUC
```

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By sorowarmahabub1709vip, contest: Sheet #7 (Recursion), problem: (B) Print from 1 to N, **Accepted**,

```
//          Bismillahir Rahnanir Rahim

#include<stdio.h>

void numPrint(int n)
{
    if(n<=0)
        return;

    /* if(n==1)
        printf("%d", n);
    else */
    numPrint(n-1);
    printf("%d\n", n);
}

int main()
{
    int n;
    scanf("%d", &n);
    numPrint(n);
    return 0;
}

//          Author: Sorowar Mahabub,
//          studies B.Sc in CSE, IIUC
```

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By sorowarmahabub1709vip, contest: Sheet #7 (Recursion), problem: (C) Print from N to 1, **Accepted**

```
//          Bismillahir Rahnanir Rahim

#include<stdio.h>

void numPrint(int n)
{
    if(n<=0)
        return;

    if(n==1)
        printf("%d", n);
    else
        printf("%d ", n);
    numPrint(n-1);
}

int main()
{
    int n;
    scanf("%d", &n);
    numPrint(n);
    return 0;
}

//          Author: Sorowar Mahabub,
//          studies B.Sc in CSE, IIUC
```

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By sorowarmahabub1709vip, contest: Sheet #7 (Recursion), problem: (D) Print Digits using Recursion, **Accepted**,

```
// D:

#include<stdio.h>

void printdigit(int n)
{
    int r;
    if(n==0)
        return;

    r= n%10;
    printdigit(n/10);
    printf("%d ", r);
}

int main()
{
    int tc;
    scanf("%d", &tc);
    while(tc--)
    {
        int n;
        scanf("%d", &n);
        if(n==0)
            printf("%d", n);
        else
            printdigit(n);
        printf("\n");
    }
    return 0;
}

// Author: Sorowar Mahabub,
// studies B.Sc in CSE, IIUC
```

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By sorowarmahabub1709vip, contest: Sheet #7 (Recursion), problem: (E) Base Conversion, **Accepted**,

```
// E:

#include<stdio.h>

void find_bin(int n)
{
    int x;
    if(n==0)
        return;
    x= n%2;
    find_bin(n/2);
    printf("%d", x);
}

int main()
{
    int n,tc;
    scanf("%d", &tc);
    while(tc--)
    {
        scanf("%d", &n);
        if(n==0)
            printf("0");
        else
            find_bin(n);
        printf("\n");
    }
    return 0;
}

// Author: Sorowar Mahabub,
// studies B.Sc in CSE, IIUC
```

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By sorowarmahabub1709vip, contest: Sheet #7 (Recursion), problem: (F) Print Even Indices, **Accepted**,

```
// F:

#include<stdio.h>

void printingEven(int arr[], int n)
{
    if(n== -1)
        return;
    if(n%2==0)
        printf("%d ", arr[n]);
    printingEven(arr, n-1);
}

int main()
{
    int n;
    scanf("%d", &n);
    int arr[n+9];
    for(int i=0; i<n; i++)
        scanf("%d", &arr[i]);

    printingEven(arr, n-1);
    return 0;
}

// Author: Sorowar Mahabub,
// studies B.Sc in CSE, IIUC
```

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