



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

Assignment

Assignment No. – 11 (Official)

Submission date- 18.08.2020

Course Title-Computer Programming 1 lab

Course Code: CSE- 1121

Submitted to-

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Submitted by-

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Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

1. Problem J: Create a function called isPrime(int) which takes one integer parameter and returns 0 if the integer is not prime and 1 otherwise.

Answer :

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PROBLEMS SUBMIT CODE MY SUBMISSIONS **STATUS** STANDINGS CUSTOM INVOCATION

General

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judg
90273810	Practice: sorowarmahabub1709vip	219432J - 26	GNU C++11	Accepted	31 ms	56 KB	2020- 08-18 06:50:10	202 08-1 06:50

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```

/* BismillahHir Rahmanir Rahim */
/* Author: Sorowar Mahabub, 01521-564157 */

#include <stdio.h>

int isPrime(int n) {
    int j, flag = 1;
    for (j = 2; j <= n / 2; ++j) {
        if (n % j == 0) {
            flag = 0;
            break;
        }
    }
    return flag;
}

int main() {
    int end, i, flag;
    scanf("%d", &end);

    for (i = 2; i <= end; ++i) {
        flag = isPrime(i);
        if (flag == 1)
            printf("%d ", i);
    }
    return 0;
}

```

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2. Problem L: Create a function named "gcd(int, int)" that takes two int parameters and returns their GCD.

Answer :

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PROBLEMS SUBMIT CODE MY SUBMISSIONS **STATUS** STANDINGS CUSTOM INVOCATION

General

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judg
90274467	Practice: sorowarmahabub1709vip	219432L - 18	GNU C++11	Accepted	31 ms	60 KB	2020- 08-18 07:08:25	202 08-1 07:08

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```
//Author is Sorowar Mahabub
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//Int' Islamic University Chittagong (IIUC)
//Cell: 01834-756433
//Email: sorowarmahabub1709vip@gmail.com

#include<stdio.h>

int gcd(int a, int b)
{
    int gc;
    for(int i=1; i<=a && i<=b; i++)
    {
        if(a%i==0 && b%i==0)
        {
            gc = i;
        }
    }
    return gc;
}

int main()
{
    int num1, num2;
    scanf("%d %d",&num1, &num2);

    int result = gcd(num1, num2);
    printf("%d\n", result);

    return 0;
}
```

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3. Create a function named "min" which takes two integer parameters and returns the minimum value of them.

Answer :

```

1 #include<stdio.h>
2
3 int min(int a, int b)    {
4     int x;
5     if(a>b) x= b;
6     else x= a;
7     return x;
8 }
9 int main()
10 {
11     int a, b;
12     scanf("%d%d", &a, &b);
13     int y= min(a, b);
14     printf("%d\n", y);
15
16     return 0;
17 }
18

```

Compile Result

4 5
4

[Process completed

Compile Result

102 89
89

[Process completed - p

Compile Result

-3 -7
-7

[Process completed

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4. Problem I (palindrome): Create a function named "reverse" that takes an integer parameter and returns the reverse value of it.

Answer :

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PROBLEMS SUBMIT CODE MY SUBMISSIONS **STATUS** STANDINGS CUSTOM INVOCATION

General

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judg
90272038	Practice: sorowarmahabub1709vip	2194321 - 13	GNU C++11	Accepted	31 ms	0 KB	2020- 08-18 06:00:53	2021- 08-18 06:00

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```

/* BismillahHir Rahmanir Rahim */
/* Author: Sorowar Mahabub, 01521-564157 */

#include<stdio.h>

int reverse (int n) {
    int reverse = 0, remainder;
    while(n != 0)
    {
        remainder = n%10;
        reverse = reverse*10 + remainder;
        n /= 10;
    }
    return reverse;
}

int main()
{
    int n, a;

    scanf("%d", &n);
    a = n;

    if(a == reverse(n))
    {
        printf("%d\nYES", reverse(n));
    }
    else printf("%d\nNO", reverse(n));

    return 0;
}

```

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5. Problem M: Create a function named "isLucky" that takes an integer parameter and returns 1 if the passed argument is a lucky number or 0 otherwise.

Answer :

```
1 /*    BismillahHir Rahmanir Rahim    */
2 /*    Author: Sorowar Mahabub, 01521-564157    */
3
4 #include<stdio.h>
5 int isLucky(int n)
6 {
7     int d,d1;
8     while(n!=0)
9     {
10         d=n%10;
11         if(d==4||d==7) d1=1;
12         else {d1=0;break;}
13         n=n/10;
14     }
15     return d1;
16
17 }
18 int main()
19
20 {
21     int N;scanf("%d",&N);
22     int ans=isLucky(N);
23     printf("%d",ans);
24     return 0;
25 }
```

Submitted by-

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