

NAME : MD MUSFIQUR RAHMAN

ID : 011 221 334

SECTION: F

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COURSE: STRUCTURED PROGRAMMING
LANGUAGE

Submitted To

Anika Tusrim Rodela

Ans to the Question No-1

```
#include <stdio.h>
#include <string.h>
struct c {
    char Name [50];
    char Email [50];
    char Password [20];
    int Marks;
};
Void login (struct c *card, int num){
    char email [50];
    char password [20];
    printf ("\n Enter Email: ");
    scanf ("%s", &email);
    printf ("Enter Password: ");
    scanf ("%s", &password);
    int found = 0;
    for (int i = 0; i < num; i++){
        if (strcmp(card[i].Email, email) == 0 &&
            strcmp(card[i].Password, password) == 0)
            printf ("Marks: %d \n", card[i].Mark);
        found = 1;
        return;
    }
    if (found == 0){
```

```
printf ("Wrong Email and/or Password");  
}
```

```
}  
int main () {  
    int num = 1334;  
    struct c card [num];  
    for (int i = 0; i < num; i++) {  
        strcpy (card [i]. Name, "Mustaq");  
        strcpy (card [i]. Email, "m@g-mail.com");  
        strcpy (card [i]. Password, "Mustaq61");  
        card [i]. Marks = 0;  
    }  
    for (int i = 0; i < num; i++) {  
        printf ("Enter information for %d: \n, in);  
        printf ("Name:");  
        fflush (stdin);  
        fgets (card [i]. Name, 50, stdin);  
        fflush (stdin);  
        printf ("Email:");  
        scanf ("%s", &card [i]. Email);  
        printf ("Password:");  
        scanf ("%s", &card [i]. Password);  
        printf ("Marks:");  
        scanf ("%d", &card [i]. Marks);  
    }  
    Login (card, num);  
    return 0;  
}
```


Ans to the Question No-2

```
#include <stdio.h>
int search (float arr[], float value, int n, int *r);
int main () {
    int n;
    printf ("Enter array size:");
    scanf ("%d", &n);
    float arr[n], value;
    printf ("Enter the array elements:\n");
    for (int i=0; i<n; i++) {
        scanf ("%f", &arr[i]);
    }
    printf ("Enter the value to search:");
    scanf ("%f", &value);
    int a = 1334 % 10;
    int ind = search (arr, value, n, &a);
    if (ind == -1)
        printf ("Not found\n");
    else
        printf ("index:%d", ind);
}

int search float arr[], float value, int n, int *r;
{
    int count = 0, ind = -1;
    for (int i=0; i<n; i++) {
        if (arr[i] == value) {
            count++;
        }
    }
}
```

```

    if (count == π) {
        ind = i;
        break;
    }
}
return ind;
}

```

Ans to the Question No - 3

```

#include <stdio.h>
int main() {
    int >td = 45, >ec = 6;
    int >core [>ec] [>td];
    char >[] = {'A', 'B', 'C', 'D', 'E', 'F'};
    for (int i = 0; i < >ec; i++) {
        for (int j = 0; j < >td; j++) {
            >core[i][j] = (1334 % 11) + 10;
        }
    }
    for (int j = 0; j < >td; j++) {
        >core[2][j] += j * j * j * j * j * j * j * j * j * j;
    }
    for (int i = 0; i < >ec; i++) {
        printf("section %d \n", >ec[i]);
        for (int j = 0; j < >td; j++) {
            printf("%d", >core[i][j]);
        }
        printf("\n");
    }
}

```

Ans to the Question No - 4

str 1

Hello
HelloMa
HelloMaF
HelloMaFe
HelloMaFed
HelloMaFedj
HelloMaFedjo
HelloMaFedjou
HelloMaFedjoutr
ruojde FaMolle H

str 2

Bonjour
Fedjour

Ans to the Question No - 5

```
#include <stdio.h>
int main() {
    FILE *file;
    int number, sum=0, count=0;
    double average;
    file = fopen("G:/6th semester/GPL/Fall/Final/Final/avg.txt", "r");
    if (file == NULL) {
        printf("Unable to open file.\n");
        return 1;
    }
    while (!feof(file) & number) {
        sum += number;
        count++;
    }
    fclose(file);
    if (count != 0) {
        average = (double) sum / count;
        printf("Average: %.2f\n", average);
    } else {
        printf("No number found in the file.\n");
    }
    return 0;
}
```


Ans to the Question No-6

Output:

A, b, i, , l, y,

Ans to the Question No-7

```
#include <stdio.h>
int gcd (int a, int b) {
    if (b == 0)
        return a;
    else
        return gcd (b, a % b);
}
int main () {
    int n1, n2;
    printf ("Enter two Number: \n");
    scanf ("%d %d", &n1, &n2);
    int gcd = gcd (n1, n2);
    printf ("GCD is : %d", gcd);
}
```

Ans to the Question No-8

Output:-

C=506

Ans to the Question No-9

Content of test.txt:-

Hello 3 dosers!!!
Line 4: 1342, 1338, 1334,
Line 5: 1341, 1337,
Line 6: 1340, 1336,

Line 7 : 1343, 1339, 1335,

Ans to the Question NO-10

Output:-

→ 4556

Ans to the Question NO-11

num1 = 1334 % 7

= 4

num2 = f1(num1)

= f1(4)

f1(4)

↓

num2 = 4 * 4
= 16

return num2 - 1 = 16 - 1
= 15

$$\begin{array}{r} 7 \overline{) 1334} 190 \\ \underline{1330} \\ 4 \end{array}$$

Now,

num2 = 15

called → f2(12, 15.0)

num1 = 12 + 15.0 = 27.0

num2 = 27.0 - 15.0 = 12.0

[for local variable]
[for local variable]

Ans to the Question No-12

```
#include <stdio.h>
int main () {
    int up=0;
    char c [1000];
    printf ("Enter a sentence:");
    fgets (c, 1000, stdin);
    int i=0;
    for (i=0; c[i]!='\0'; i++){
        if (c[i] >= 65 && c[i] <= 90)
            up++;
    }
    if (up%2 != 0)
        printf ("Md Musfique Rahman")
    else
        printf ("011221334");
}
```

Ans to the Question No-13

```
#include <stdio.h>
```

```
int main () {
```

```
    char str[100];
```

```
    printf("Enter a sentence:");
```

```
    fgets(str, 100, stdin);
```

```
    char ID[] = "011221334";
```

```
    for (int i=0; str[i] != '\0'; i++) {
```

```
        if (str[i] == ' ' || str[i-1] == '+' || i == 0) {
```

```
            if (str[i] >= 97 && str[i] <= 122)
```

```
                str[i] = str[i] - 32;
```

```
        }
```

```
    else {
```

```
        if (str[i] >= 65 && str[i] <= 90)
```

```
            str[i] = str[i] + 32;
```

```
    }
```

```
    strcat(str, " ");
```

```
    strcat(str, ID);
```

```
    puts(str);
```

```
}
```