



**Marwadi**  
University

**Marwadi University**  
**Faculty of Technology**  
**Department of Information and Communication**  
**Technology**

**Experiment: 1**

**Aim:** Create a user define function named ASCII which accept one argument (of character type) and display ASCII value of that character

**Software:** Dev C++

**Code:**

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

```
void ASSCI (char a)
```

```
{
```

```
    printf("The ASSCI Value of %c Is %d",a,a);
```

```
}
```

```
int main()
```

```
{
```

```
    char a;
```

```
    printf("Enter A Character:-");
```

```
    scanf("%c",&a);
```

```
    ASSCI(a);
```

```
    return 0;
```

```
}
```

Student Name:- Aryan Dilipbhai Langhanoja  
Roll\_No\_- 92200133030



**Marwadi**  
University

**Marwadi University**  
**Faculty of Technology**  
**Department of Information and Communication**  
**Technology**

**Output:**

```
D:\Aryan\Sem-1\ICP\Assignment\Programming Assignment\Programming Assig
Enter A Character:-A
The ASSCI Value of A Is 65
-----
Process exited after 2.208 seconds with return value 0
Press any key to continue . . .
```

**Experiment: 2**

**Aim:** Write a program that take input names of 10 students. Arrange them in ascending order in string array.

**Software:** Dev C++

**Code:**

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

int main()
{
    char names[10][30],temp[30];

    printf("Enter 10 names:\n");

    for(int i=0; i<10;i++)
    {
        scanf("%s",&names[i]);
    }

    for(int i=0;i<10;i++)
    {
        for(int j=i+1;j<10;j++)
        {
            if(strcmp(names[i],names[j])>0)
            {
```

Student Name:- Aryan Dilipbhai Langhanoja  
Roll\_No\_- 92200133030



```
        strcpy(temp,names[i]);
        strcpy(names[i],names[j]);
        strcpy(names[j],temp);
    }
}
printf("Names in ascending order are:");

for(int i=0;i<10;i++)
{
    printf("\n%s",names[i]);
}

return 0;
}
```

### Output:

```
D:\Aryan\Sem-1\ICP\Assignment\Programming Assignment\Programming Assignment-4\Programm-2.exe
Enter 10 names:
A
B
C
D
E
F
G
H
I
J
Names in ascending order are:
A
B
C
D
E
F
G
H
I
J
-----
Process exited after 9.361 seconds with return value 0
Press any key to continue . . .
```



**Marwadi**  
University

**Marwadi University**  
**Faculty of Technology**  
**Department of Information and Communication**  
**Technology**

**Experiment: 3**

**Aim:** Write a function that receives five integers and returns the average of these numbers.  
Call this function from main() and print the results in main()

**Software:** Dev C++

**Code:-**

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

double avgn (int a1,int a2,int a3,int a4,int a5)
{
    double avg;
    avg= (a1+a2+a3+a4+a5)/5;
    return avg;
}

int main()
{
    int a[5];
    float avg;

    for(int i=0;i<5;i++)
    {
        printf("Enter The Element at Index-%d:-",i+1);
        scanf("%d",&a[i]);
    }

    avg=avgn(a[0],a[1],a[2],a[3],a[4]);

    printf("The Average Is %.2f\n",avg);

    return 0;
}
```

Student Name:- Aryan Dilipbhai Langhanoja  
Roll\_No\_- 92200133030



**Marwadi**  
University

**Marwadi University**  
**Faculty of Technology**  
**Department of Information and Communication**  
**Technology**

**Output:**

```
D:\Aryan\Sem-1\ICP\Assigment\Programming Assigment\Programming A
Enter The Element at Index-1:-1
Enter The Element at Index-2:-2
Enter The Element at Index-3:-3
Enter The Element at Index-4:-4
Enter The Element at Index-5:-5
The Average Is 3.00

-----
Process exited after 3.998 seconds with return value 0
Press any key to continue . . .
```



**Marwadi**  
University

**Marwadi University**  
**Faculty of Technology**  
**Department of Information and Communication**  
**Technology**

**Experiment: 4**

**Aim:** Write a C program to obtain the greatest common divisor (GCD) of two integers using iterative and recursive methods.

**Software:** Dev C++

**Code:-**

```
#include <stdio.h>

int hcf(int n1, int n2);

int main()
{
    int n1, n2;

    printf("Enter the First Number:-");
    scanf("%d", &n1);

    printf("Enter the Second Number:-");
    scanf("%d", &n2);

    printf("G.C.D of %d and %d is %d.", n1, n2, hcf(n1, n2));

    return 0;
}

int hcf(int n1, int n2)
{
    if (n2 != 0)
    {
        return hcf(n2, n1 % n2);
    }

    else
    {
        return n1;
    }
}
```

Student Name:- Aryan Dilipbhai Langhanoja  
Roll\_No\_- 92200133030



**Marwadi**  
University

**Marwadi University**  
**Faculty of Technology**  
**Department of Information and Communication**  
**Technology**

}

**Output:-**

```
D:\Aryan\Sem-1\ICP\Assigment\Programming Assigment\Programming Assi
Enter the First Number:-6
Enter the Second Number:-3
G.C.D of 6 and 3 is 3.
-----
Process exited after 1.696 seconds with return value 0
Press any key to continue . . .
```

Student Name:- Aryan Dilipbhai Langhanoja  
Roll\_No\_- 92200133030



**Marwadi**  
University

**Marwadi University**  
**Faculty of Technology**  
**Department of Information and Communication**  
**Technology**

**Experiment: 5**

**Aim:-** Write a function to generate the square of any given number

**Software:-** Dev C++

**Code:-**

```
#include<stdio.h>

int square (int a)
{
    int ans;
    ans= a*a;
    return ans;
}

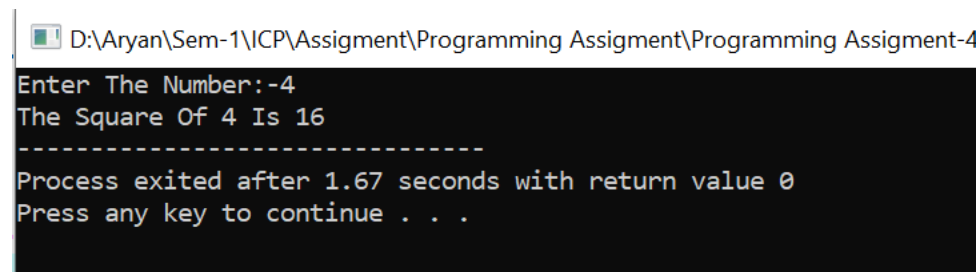
int main()
{
    int a;

    printf("Enter The Number:-");
    scanf("%d",&a);

    printf("The Square Of %d Is %d",a,square(a));

    return 0;
}
```

**Output:-**



```
D:\Aryan\Sem-1\ICP\Assignment\Programming Assignment\Programming Assignment-4
Enter The Number:-4
The Square Of 4 Is 16
-----
Process exited after 1.67 seconds with return value 0
Press any key to continue . . .
```

Student Name:- Aryan Dilipbhai Langhanoja  
Roll\_No\_- 92200133030