Experiment: 1

Aim: Write a program that perform the following output for n rows

Software: Dev C++

Code:

```
#include<stdio.h>

int main()
{       int temp=1,n;

        printf("Enter The Number Of Rows:-");

        scanf("%d",&n);

        for(int i=1;i<=n;i++)

        {

                for(int j=1;j<=i;j++)

                {

                        printf("%d ",temp);

                        temp++;

                }

                printf("\n");

        }

        return 0;

}
```

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Output:

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```
Enter The Number Of Rows:-6
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
16 17 18 19 20 21

--------------------------------
Process exited after 0.6085 seconds with return value 0
Press any key to continue . . .
```

Experiment: 2

Aim: Print pattern like follow.

Software: Dev C++

Code:

```
#include<stdio.h>

int main()

{for(int i=5;i>=1;i--)

        {for(int j=i;j>=1;j--)

                {printf("%d ",j);}

                printf("\n");}

        return 0;

}
```

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Output:

```
5 4 3 2 1
4 3 2 1
3 2 1
2 1
1

--------------------------------
Process exited after 0.06466 seconds with return value 0
Press any key to continue . . .
```

Experiment: 3

Aim: Compare while, do while and for loop through a program.

Software: Dev C++

Code:-

```c
#include<stdio.h>

int main()
{int n,i=1;
        printf("Enter The Number:-");
        scanf("%d",&n);
        while(i<=n){
                printf("%d \n",i);
                i++;}
        printf("\n\n");
        for(i=1;i<=n;i++){
                printf("%d \n",i);}
        printf("\n\n");
        i=1;
        do
        {printf("%d \n",i);
                i++;
        }while(i<=n);
}
```

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Output:

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```
Enter The Number:-0




1

--------------------------------
Process exited after 1.018 seconds with return value 0
Press any key to continue . . .
```

Experiment: 4

Aim: Demonstrate Menu Driven program through switch case.

Software: Dev C++

Code:-

#include<stdio.h>

int main()

{

    char operation;

    int a,b;

    printf("Enter The Operation:-");

    scanf("%c",&operation);

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```c
printf("Enter The Value Of a:-");

scanf("%d",&a);


printf("Enter The Value Of b:-");

scanf("%d",&b);


switch(operation)

{
        case '+' :

        {
                printf("The Addition Is %d",a+b);

                break;

        }


        case '-' :

        {
                printf("The Substraction Is %d",a-b);

                break;

        }
```

```
        case '*' :

        {

                printf("The Multiplication Is %d",a*b);

                break;

        }


        case '/' :

        {

                printf("The Multiplication Is %d",a/b);

                break;

        }


        case '%' :

        {

                printf("The Modulo Is %d",a%b);

                break;

        }


        default :

        {

                printf("Choose Valid Operation");
```

```
            break;

        }

    }

}
```

Output:-

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```
Enter The Operation:--
Enter The Value Of a:-9
Enter The Value Of b:-8
The Substraction Is 1
--------------------------------
Process exited after 2.376 seconds with return value 0
Press any key to continue . . .
```

Experiment: 5

Aim:- A company insures its drivers in the following cases:
if the driver is married;
• If the driver is unmarried, male, and above 30 years of age;
• If the driver is unmarried, female, and above 25 years of age.

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In all other cases the driver is not insured. If the marital status, sex, and age of the driver are the inputs, write a program to determine whether the driver is to be insured or not.

Software:- Dev C++

Code:-

#include<stdio.h>

int main()

{   char marriage_status,gender;

   int age;

   printf("Enter Your Marriage Status:-");

   scanf("%c",&marriage_status);

   fflush(stdin);

   printf("Enter Your Gender:-");

   scanf("%c",&gender);

   fflush(stdin);

   printf("Enter Your Age:-");

   scanf("%d",&age);

   if(marriage_status=='M' || marriage_status=='m'){

       printf("Driver Is Insaured\n");}

   else{

       if((gender=='m' || gender=='M') && age>=30){

           printf("Driver Is Insaured\n");

       }

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```
        else if((gender=='f' || gender=='F') && age>=25){

                printf("Driver Is Insaured\n");

        }

        else{

                printf("Driver Is Not Insaured\n");

        }

    }

    return 0;

}
```

Output:-

```
D:\Aryan\Sem-1\ICP\Assigment\Daily Lab Assigment\Daily Lab Assigment-4
Enter Your Marriage Status:-married
Enter Your Gender:-male
Enter Your Age:-25
Driver Is Insaured

--------------------------------
Process exited after 10.46 seconds with return value 0
Press any key to continue . . .
```

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