**Assignment - 5 A Job Ready Bootcamp in C++, DSA and IOT MySirG**

**(Solutions)**

# More on Iterative Control Statements

1. Write a program to print MySirG N times on the screen

#include <stdio.h>

*int* main()

{

*int* i, n;

    printf("Enter the number of times you want to print: ");

    scanf("%d", &n);

    for (i = 0; i < n; i++)

    {

        printf("\nMySirG");

    }

    return 0;

}

2. Write a program to print the first N natural numbers.

#include <stdio.h>

*int* main()

{

*int* i, n;

    printf("Enter the number of times you want to print: ");

    scanf("%d", &n);

    for (i = 1; i <=n; i++)

    {

        printf("%d ", i);

    }

    return 0;

}

3. Write a program to print the first N natural numbers in reverse order

#include <stdio.h>

*int* main()

{

*int* i, n;

    printf("Enter the number of times you want to print: ");

    scanf("%d", &n);

    for (i = n; i >= 1; i--)

    {

        printf("%d ", i);

    }

    return 0;

}

4. Write a program to print the first N odd natural numbers

#include <stdio.h>

*int* main()

{

*int* i, n;

    printf("Enter the number of times you want to print: ");

    scanf("%d", &n);

    for (i = 1; i <= n; i++)

    {

        printf("%d ", 2 \* i - 1);

    }

    return 0;

}

5. Write a program to print the first N odd natural numbers in reverse order.

#include <stdio.h>

*int* main()

{

*int* i, n;

    printf("Enter the number of times you want to print: ");

    scanf("%d", &n);

    for (i = n; i >= 1; i--)

    {

        printf("%d ", 2 \* i - 1);

    }

    return 0;

}

6. Write a program to print the first N even natural numbers

#include <stdio.h>

*int* main()

{

*int* i, n;

    printf("Enter the number of times you want to print: ");

    scanf("%d", &n);

    for (i = 1; i <= n; i++)

    {

        printf("%d ", 2 \* i);

    }

    return 0;

}

7. Write a program to print the first N even natural numbers in reverse order

#include <stdio.h>

*int* main()

{

*int* i, n;

    printf("Enter the number of times you want to print: ");

    scanf("%d", &n);

    for (i = n; i >= 1; i--)

    {

        printf("%d ", 2 \* i);

    }

    return 0;

}

8. Write a program to print squares of the first N natural numbers

#include <stdio.h>

*int* main()

{

*int* i, n;

    printf("Enter the number of times you want to print: ");

    scanf("%d", &n);

    for (i = 1; i <= n; i++)

    {

        printf("%d ", i \* i);

    }

    return 0;

}

9. Write a program to print cubes of the first N natural numbers

#include <stdio.h>

*int* main()

{

*int* i, n;

    printf("Enter the number of times you want to print: ");

    scanf("%d", &n);

    for (i = 1; i <= n; i++)

    {

        printf("%d ", i \* i \* i);

    }

    return 0;

}

10. Write a program to print a table of N.

#include <stdio.h>

*int* main()

{

*int* i, n;

    printf("Enter the number of times you want to print: ");

    scanf("%d", &n);

    printf("Table of %d : \n", n);

    for (i = 1; i <= 10; i++)

    {

        printf("%d \* %d = %d \n", n, i, n \* i);

    }

    return 0;

}