Assignment - 5 A Job Ready Bootcamp in C++, DSA and IOT MySirG More on Iterative Control Statements

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

```
#include<stdio.h>
void function(int n);
void function(int n)
{
    while(n)
    {
        printf("MySirG\n");
        --n;
    }

}
int main()
{
    int n;
    printf("enter number:\n");
    scanf("%d",&n);
    function(n);
return 0;
}
```

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

```
#include<stdio.h>
void function(int n);
void function(int n)
{
    int i=1;
    while(n)
    {
        printf("%d\n",i);
        ++i;
        --n;
    }

}
int main()
{
    int n;
    printf("enter number:\n");
    scanf("%d",&n);
    function(n);
return 0;
}
```

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

```
#include<stdio.h>
void function(int n);
void function(int n)
{

    while(n)
    {
        printf("%d\n",n);

        --n;
    }

}
int main()
{
    int n;
    printf("enter number:\n");
    scanf("%d",&n);
    function(n);
return 0;
}
```

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

```
#include<stdio.h>
void function(int n);
void function(int n)
{
    int i=1;
    while(n)
    {
        printf("%d\n",2*i-1);
        ++i;
        --n;
    }

}
int main()
{
    int n;
    printf("enter number:\n");
    scanf("%d",&n);
    function(n);
return 0;
}
```

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

```
#include<stdio.h>
void function(int n);
void function(int n)
{
   // int i=1;
    while(n)
    {
        printf("%d\n",2*n-1);
        //++i;
        --n;
    }

}
int main()
{
    int n;
    printf("enter number:\n");
    scanf("%d",&n);
    function(n);
return 0;
}
```

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

```
#include<stdio.h>
void function(int n);
void function(int n)
{
    int i=1;
    while(n)
    {
        printf("%d\n",2*i);
        ++i;
        --n;
    }

}
int main()
{
    int n;
    printf("enter number:\n");
    scanf("%d",&n);
    function(n);
return 0;
}
```

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

```
#include<stdio.h>
void function(int n);
void function(int n)
{
    //int i=1;
    while(n)
    {
        printf("%d\n",2*n);
     //   ++i;
        --n;
    }

}
int main()
{
    int n;
    printf("enter number:\n");
    scanf("%d",&n);
    function(n);
return 0;
}
```

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

```
#include<stdio.h>
void function(int n);
void function(int n)
{
    int i=1;
    while(n)
    {
        printf("%d\n",i*i);
         ++i;
        --n;
    }

}
int main()
{
    int n;
    printf("enter number:\n");
    scanf("%d",&n);
    function(n);
return 0;
}
```

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

```
#include<stdio.h>
void function(int n);
void function(int n)
{
    int i=1;
    while(n)
    {
        printf("%d\n",i*i*i);
         ++i;
        --n;
    }

}
int main()
{
    int n;
    printf("enter number:\n");
    scanf("%d",&n);
    function(n);
return 0;
}
```

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

```
#include<stdio.h>
void function(int n);
void function(int n)
{
    int i=1;
    while(i<11)
    {
        printf("%d\n",n*i);
         ++i;
       // --n;
    }

}
int main()
{
    int n;
    printf("enter number:\n");
    scanf("%d",&n);
    function(n);
return 0;
}
```