Assignment - 4 (Iterative Control Statements)

1. Write a program to print MySirG 5 times on the screen

```
Program -
#include<stdio.h>
int main()
{
   int i = 5;

   while(i--)
      printf("MySirG ");

   return 0;
}
Output -
MySirG MySirG MySirG MySirG MySirG
```

2. Write a program to print the first 10 natural numbers.

```
Program -
```

```
#include<stdio.h>
int main()
{
    int i;
    for(i = 1; i <= 10; i++)
        printf("%d ",i);
    return 0;
}
Output -
1 2 3 4 5 6 7 8 9 10</pre>
```

3. Write a program to print the first 10 natural numbers in reverse order.

```
Program -
```

```
#include<stdio.h>
int main()
{
    int i = 10;
    while(i)
        printf("%d ",i--);
    return 0;
}
Output - 10 9 8 7 6 5 4 3 2 1
```

4. Write a program to print the first 10 odd natural numbers

```
Program -
#include<stdio.h>
int main()
{
    int i;
    for(i = 1 ; i <= 10 ; i++)
        printf("%d ",2 * i - 1);
    return 0;
}
Output -</pre>
```

1 3 5 7 9 11 13 15 17 19

5. Write a program to print the first 10 odd natural numbers in reverse order.

```
Program -
```

```
#include<stdio.h>
int main()
{
    int i;
    for(i = 10; i >= 1; i--)
        printf("%d ",2 * i - 1);
    return 0;
}
Output -
19 17 15 13 11 9 7 5 3 1
```

6. Write a program to print the first 10 even natural numbers

Program -

```
#include<stdio.h>
int main()
{
    int i;
    for(i = 1 ; i <= 10 ; i++)
        printf("%d ",2 * i);
    return 0;
}
Output -</pre>
```

2 4 6 8 10 12 14 16 18 20

7. Write a program to print the first 10 even natural numbers in reverse order

Program -

```
#include<stdio.h>
int main()
{
    int i;
    for(i = 10 ; i >= 1 ; i--)
        printf("%d ",2 * i);
    return 0;
}
Output -
20 18 16 14 12 10 8 6 4 2
```

8. Write a program to print squares of the first 10 natural numbers

Program -

```
#include<stdio.h>
int main()
{
    int i;
    for(i = 1 ; i <= 10 ; i++)
        printf("%d ",i * i);
    return 0;
}
Output -
1 4 9 16 25 36 49 64 81 100</pre>
```

9. Write a program to print cubes of the first 10 natural numbers

Program -

```
#include<stdio.h>
int main()
{
    int i;
    for(i = 1 ; i <= 10 ; i++)
        printf("%d ",i*i*i);
    return 0;
}</pre>
```

Output -

1 8 27 64 125 216 343 512 729 1000

10. Write a program to print a table of 5.

Program -

```
#include<stdio.h>
int main()
{
  int i;
  for(i = 1; i <= 10; i++)
     printf("5 * %d = %d\n", i , 5 * i);
  return 0;
}
Output -
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50
```