Day 1

```
#include<stdio.h>
#include<conio.h>
int main()
{
   int N, i;
   printf("Enter the value of N (limit): ");
   scanf("%d", &N);
   printf("\n");
   for(i=1; i<=N; i++)
   {
      if(i==N)
         printf("%d", i);
      else
         printf("%d,", i);
   }
   getch();
   return 0;
}
```

exp 2

```
#include<stdio.h>

int main()
{
        int i, number;

        printf("\n Please Enter the Maximum Limit Value : ");
        scanf("%d", &number);

        printf("\n Even Numbers between 1 and %d are : \n", number);
        for(i = 1; i <= number; i++)
```

```
        {
        if ( i % 2 == 0 )
        {
                        printf(" %d\t", i);
        }
        }

        return 0;
}
```

exp 3

```
#include<stdio.h>

int main()
{
        int i, number;

        printf("\n Please Enter the Maximum Limit Value :  ");
        scanf("%d", &number);

        printf("\n Odd Numbers between 1 and %d are : \n", number);
        for(i = 1; i <= number; i++)
        {
        if ( i % 2 != 0 )
        {
                        printf(" %d\t", i);
        }
        }

        return 0;
}
```

exp 4

```
#include<stdio.h>
int series(int n);
int rseries(int n);

int main( )
{
	int n;
	printf("Enter number of terms : ");
	scanf("%d", &n);

   printf("\b\b Using Recursion :: \n");
	printf("\b\b = %d\n", series(n));
	printf("\n\b\b Using Recursion :: \n");
	printf("\b\b = %d\n\n\n", rseries(n));

	return 0;
}
int series(int n)
{
	int i, sum=0;
	for(i=1; i<=n; i++)
	{
		printf("%d + ", i);
		sum+=i;
	}
	return sum;
}

int rseries(int n)
{
```

```
    int sum;
    if(n == 0)
        return 0;
    sum = (n + rseries(n-1));
    printf("%d + ",n);
    return sum;
}
```

exp 5

```
#include<stdio.h>

int main()
{
  int i, number, Sum = 0;

  printf("\n Please Enter the Maximum Limit Value : ");
  scanf("%d", &number);

  printf("\n Even Numbers between 0 and %d are : ", number);
  for(i = 1; i <= number; i++)
  {
    if ( i%2 == 0 )
    {
        printf("%d  ", i);
      Sum = Sum + i;
    }
  }
  printf("\n The Sum of All Even Numbers upto %d  = %d", number, Sum);

  return 0;
```

```
}
```

exp 6

```
#include<stdio.h>


int main()
{
  int i, number, Sum = 0;


  printf("\n Please Enter the Maximum Limit Value : ");
  scanf("%d", &number);


  printf("\n Odd Numbers between 0 and %d are : ", number);
  for(i = 1; i <= number; i++)
  {
            if ( i%2 != 0 )
            {
                        printf("%d  ", i);
       Sum = Sum + i;
            }
  }
  printf("\n \n The Sum of Odd Numbers from 1 to %d  = %d", number, Sum);


  return 0;
}
```

exp 7

```
#include<stdio.h>
long cube_sum_n_natural(int n) {
   long sum = 0;
   int i;
   for (i = 1; i <= n; i++) {
      sum += i * i * i;
   }
```

```
  return sum;
}
main() {
  int n;
  printf("Enter value of n: ");
  scanf("%d", &n);
  printf("Result is: %ld", cube_sum_n_natural(n));
}
```

exp 8

```
#include<stdio.h>
long cube_sum_n_natural(int n) {
  long sum = 0;
  int i;
  for (i = 1; i <= n; i++) {
    sum += i * i * i;
  }
  return sum;
}
main() {
  int n;
  printf("Enter value of n: ");
  scanf("%d", &n);
  printf("Result is: %ld", cube_sum_n_natural(n));
}
```

exp 9

```
#include <stdio.h>

int main()
{

   int i, no, oddsum = 0;
```

```
    printf("Enter the value of no upto which we want to find the sum \n");
    scanf("%d", &no);

    for (i = 1; i <= no; i++)
    {
        if (i % 2 != 0)
            oddsum = oddsum + i;
    }

    printf("Sum of all odd numbers = %d\n", oddsum);

    return 0;
}
```

exp 10

```
#include <stdio.h>
int main() {
    int num;
    printf("Enter an integer: ");
    scanf("%d", &num);

    // true if num is perfectly divisible by 2
    if(num % 2 == 0)
        printf("%d is even.", num);
    else
        printf("%d is odd.", num);

    return 0;
```

```
}
```

exp 11

```
#include <stdio.h>

int main()

{

   int num;


   printf("enter a number :");

   scanf("%d", &num);

   if (num >= 0)

      printf("%d is a positive number \n", num);

   else

      printf("%d is a negative number \n", num);

      return 0;

}
```

exp 12

```
#include<stdio.h>

int main()

{

int n1=0,n2=1,n3,i,number;

printf("Enter the number of elements:");

scanf("%d",&number);

printf("\n%d %d",n1,n2);

for(i=2;i<number;++i)

{

 n3=n1+n2;

 printf(" %d",n3);

 n1=n2;

 n2=n3;

}

 return 0;

}
```