

## Assignment-6

Use any loop

Q1 WAP to calculate Sum of first N Natural Numbers.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int i = 0; int n = 0; int sum = 0;
```

```
    printf("Enter a Number");
```

```
    scanf("%d", &n);
```

```
    for (i = 0; i <= n; i++)
```

```
    {
```

```
        S = S + 1 + (n - 1) * 1.
```

```
        S = S + 1 + (i - 1) * 1.
```

```
        S = S + i;
```

```
    }
```

```
    printf("%d", i);
```

```
    return 0;
```

```
}
```

Q2 WAP to calculate sum of first N Even Natural Numbers.

```
#include <stdio.h>
int main()
{
    int i = 0, n = 0, sum = 0;
    printf("Enter a No ");
    scanf("%d", &n);
    for (i = 0; i <= n; i++)
    {
        S = S + 2 * i;
    }
    printf("%d", S);
    return 0;
}
```

Q3 WAP to calculate the sum of first N odd Natural Numbers.

```
#include <stdio.h>
int main()
{
    int n, sum, i = 0;
    printf("Enter a No ");
```

```

scanf ("%d", &n);
sum =
for (int i = 1; i <= n; i++)
{
    sum = sum + (2*i - 1);
}
printf ("%d", sum);
return 0;
}

```

Q4

WAP to calculate the sum of squares of first N Natural Numbers.

```

#include <stdio.h>
int main() { int n=0;
{ printf("Enter a No");
scanf ("%d", &n);
int i = 1; sum = 0;
for (int i = 1; i <= n; i++)
{
    sq = i * i;
    sum = sum + sq;
}
printf ("%d", sum);
}

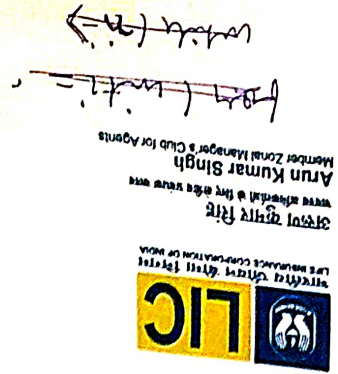
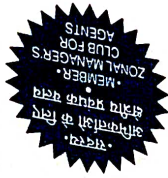
```

return 0;  
}

Q 5 WAP to calculate the sum of cubes of first N Natural Numbers.

```
#include <stdio.h>
int main() int n=0;
{
    printf("Enter a No.");
    scanf("%d", &n);
    int sum=0, i=1, n=0; int cube=1;
    for (int i=1; i<=n; i++)
    {
        int cube = cube * i * i;
        sum = sum + cube;
    }
    printf("%d", sum);
} return 0;
```





Q6 WAP to calculate the factorial of a Number.

```
#include <stdio.h>
int main()
{
    int n = 0;
    printf("Enter a Number");
    scanf("%d", &n);
    int fact = 1;
    for (int i = 1; i <= n; i++)
    {
        fact = fact * i;
    }
    printf("%d", fact);
    return 0;
}
```

Q7 WAP to count the digits in a given Number.

```
#include <stdio.h>
int main()
{
    int count = 0; int i = 0;
    printf("Enter the NO");
    scanf("%d", &n);
    int digit = n % 10;
    n = n / 10;
}
```

`int i = 2;`  
`if (for (int j = 1; j <= n; j++))`  
`{`  
`if (`

88 WAP to check whether a given Number is a Prime Number or Not.

```

#include <stdio.h>
int main()
{
    int n = 0; int i = 2; int j = 1;
    printf("Enter a No");
    scanf("%d", &n);
    while(i <= n)
    {
        if(n % i == 0)
        {
            i++;
        }
    }
    if(i >= 2)
    {
        printf("NO is not prime %d", n);
    }
    else
    {
        printf("NO is not prime %d", n);
    }
}

```



WAP to find the LCM of Two Numbers.



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```
#include <stdio.h>
int main()
{
    int n1, n2 = 0;
    printf("Enter 2 Nos");
    scanf("%d %d", &n1, &n2);
    int smallest = n1 < n2 ? n1 : n2;
    for (int i = 1; i <= largest smallest; i++)
    {
        int pno = 1;
        if (n1 % i == 0 || n2 % i == 0)
        {
            pno = pno * i;
        }
        printf("%d", pno);
    }
    return 0;
}
```



2. 198, 33.6  
99, 168  
9.9  
2



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Q10 WAP to reverse a given Number.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
int n=0; int rev=0;
```

```
printf("Enter a No");
```

```
scanf("%d", &n);
```

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

```
{
```

```
int digit = n % 10;
```

```
rev = rev * 10 + digit;
```

```
}
```

```
printf("%d", rev);
```

```
return 0;
```

```
}
```