

Q1 WAP to calculate the Sum of first N Natural Numbers.

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

Q2 Given Natural Nos

```
(1) #include <stdio.h>
int main()
{
    int n;
    printf("Enter the Number");
    scanf("%d", &n);
    int sum = 0;
    for (int i = 2; i <= 2 * n; i++)
    {
        sum += i;
    }
    printf("%d", sum);
}
```

return 0;

}

#include <stdio.h>

int main()

{

int n; int sum = 0;

printf("Enter the Number");

scanf("%d", &n);

for(int i = 1; i <= 2 * n; i++)

{

sum = sum + 1;

}

printf("%d", sum);

return 0;

}

#include <stdio.h>

int main()

{

int sq = 1; int n; int sum = 0;

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

{

sq = i * i;

sum = sum + sq;

printf("%d", sum);

return 0;

}

Q5

Cubes

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

Q6

factorial of a Number

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

Q7 Count digits

```
#include <stdio.h>
int main()
{
    int n; int dig; int count = 0;
    printf("Enter the Number");
    scanf("%d", &n);
    while(n > 0)
    {
        dig = n % 10;
        count++;
        n /= 10;
    }
    printf("%d", count);
    return 0;
}
```

Q8 Prime NO

```
#include <stdio.h>
int main()
{
    int n = 0; int count = 0;
    for (int i = 1; i <= n; i++)
    {
        if (n % i == 0)
        {
            count++;
        }
    }
}
```



```

if (word == 2)
{
    printf ("prime");
}
else
{
    printf ("Not prime");
}
}
return 0;
}

```

Q9 LCM

```

#include <stdio.h>
int main()
{
    int lcm = 1;
    int n1, n2;
    printf ("Enter two numbers: ");
    scanf ("%d %d", &n1, &n2);
    for (int i = 1; i <= n1 * n2; i++)
    {
        if (n1 % i == 0 && n2 % i == 0)
        {
            lcm = i;
        }
    }
    printf ("%d", lcm);
    return 0;
}

```

Q10 Reverse a Number

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

```
int main()
```

```
{ int printf("Enter a Number")
```

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

```
int digit = 1;
```

```
while (n > 0)
```

```
{
```

```
int dig = n % 10;
```

```
rev = rev * 10 + dig;
```

```
n /= 10;
```

```
}
```

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

```
return 0;
```

```
}
```