

Assignment-6

```
#include<stdio.h>
int main()
{
    int N,s=0;
    printf("How many natural numbers to be sum: ");
    scanf("%d",&N);
    while(N>0)
    {
        s=s+N;
        N--;
    }
    printf("Sum of %d natural numbers: %d",N,s);
    return 0;
}
```

```
(2) #include<stdio.h>
int main()
{
    int i=1,s=0,N;
    printf("How many even natural numbers to be sum: ");
    scanf("%d",&N);
    while(i<=N)
    {
        s=s+2*i;
        i++;
    }
    printf("Sum of %d even natural numbers: %d",N,s);
    return 0;
}
```

```
(3) #include<stdio.h>
int main()
{
    int i=1,s=0,N;
    printf("How many odd natural numbers to be sum: ");
    scanf("%d",&N);
    while(i<=N)
    {
        s=s+2*i-1;
        i++;
    }
    printf("Sum of %d odd natural numbers: %d",N,s);
    return 0;
}
```

```
(4) #include<stdio.h>
int main()
{
    int i=1,s=0,N;
    printf("How many squares of first natural numbers to be sum: ");
```

```

scanf("%d",&N);
while(i<=N)
{
    s=s+i*i;
    i++;
}
printf("sum of squares: %d",s);
return 0;
}

```

```

(5) #include<stdio.h>
int main()
{
    int i=1,s=0,N;
    printf("How many cubes of first natural numbers to be sum: ");
    scanf("%d",&N);
    while(i<=N)
    {
        s=s+i*i*i;
        i++;
    }
    printf("sum of cubes: %d",s);
    return 0;
}

```

```

(6) #include<stdio.h>
int main()
{
    int i,N,fact=1;
    printf("Enter a number for find out factorial: ");
    scanf("%d",&N);
    for(i=1;i<=N;i++)
    {
        fact=fact*i;
    }
    printf("Factorial of a number: %d",fact);
    return 0;
}

```

```

(7) #include<stdio.h>
int main()
{
    int i,x;
    printf("Enter a number: ");
    scanf("%d",&x);
    for(i=0 ;x>0;i++)
    {
        x=x/10;
    }
    printf("No. of digit: %d",i);
    return 0;
}

```

```
}
```

```
(8) #include<stdio.h>
```

```
int main()
```

```
{
```

```
    int x,i;
```

```
    printf("Enter a number: ");
```

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

```
    for(i=2;i<x;i++)
```

```
    {
```

```
        if(x%i==0)
```

```
            break;
```

```
    }
```

```
    if(x==i)
```

```
        printf("Number is prime");
```

```
    else
```

```
        printf("Number is not prime");
```

```
    return 0;
```

```
}
```

```
(9) #include<stdio.h>
```

```
int main()
```

```
{
```

```
    int a,b,L;
```

```
    printf("Enter two numbers: ");
```

```
    scanf("%d%d",&a,&b);
```

```
    for(L=1;L<=a*b;L++)
```

```
        if(L%a==0 && L%b==0)
```

```
            break;
```

```
    printf("LCM is %d",L);
```

```
    return 0;
```

```
}
```

```
(10) #include<stdio.h>
```

```
int main()
```

```
{
```

```
    int i,x,rev;
```

```
    printf("Enter a number: ");
```

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

```
    printf("Reverse number: ");
```

```
    for(i=1;x>0;i++)
```

```
    {
```

```
        rev=x%10;
```

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

```
        x=x/10;
```

```
    }
```

```
    return 0;
```

```
}
```