## NAME SUMIT GUPTA ASSIGNMENT 6

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#include <stdio.h>
int main() {
    int n, i, sum = 0;
    printf("Enter a positive integer: ");
    scanf("%d", &n);
    for (i = 1; i <= n; ++i) {
        sum =sum+ i;
    printf("Sum = %d", sum);
    return 0;
#include <stdio.h>
int main()
   int i,n,sum=0;
   printf("Input number of terms : ");
   scanf("%d",&n);
   printf("\nThe even numbers are :");
   for(i=1;i<=n;i++)</pre>
     printf("%d ",2*i);
     sum=sum+2*i;
   printf("\nThe Sum of even Natural Number upto %d terms : %d
\n",n,sum);
   return 0;
#include <stdio.h>
int main()
  int i,n,sum=0;
```

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printf("Input number of terms : ");
   scanf("%d",&n);
  for(i=1;i<=n;i++)</pre>
     printf("%d ",2*i-1);
     sum=sum+2*i-1;
   printf("\nThe Sum of odd Natural Number upto %d terms : %d
\n",n,sum);
   return 0;
#include <stdio.h>
int main()
 int i,n,sum=0;
   printf("Input number of terms : ");
   scanf("%d",&n);
  for(i=1;i<=n;i++)
     printf("%d ",i*i);
     sum=sum+(i*i);
   printf("\nThe Sum of square Natural Number upto %d
terms : %d \n",n,sum);
   return 0;
natural numbers
#include <stdio.h>
int main()
  int i,n,sum=0;
   printf("Input number of terms : ");
   scanf("%d",&n);
  for(i=1;i<=n;i++)</pre>
     printf("%d ",i*i*i);
     sum=sum+(i*i*i);
```

```
}
  printf("\nThe Sum of cubes Natural Number upto %d
terms : %d \n",n,sum);
  return 0;
}
```

```
// 6. Write a program to calculate factorial of a number
#include<stdio.h>
int main ()
{
    int i=1,n,sum=0;
    printf("Enter a number\n");
    scanf("%d",&n);
    while(i<=n)
    {
        sum=sum+(i*i*i);
        i++;
    }
        printf("%d\n",sum);

    return 0;
}</pre>
```

```
//7. Write a program to count digits in a given number
#include <stdio.h>
int main() {
  long long n;
  int count = 0;
  printf("Enter an integer: ");
  scanf("%1ld", &n);

do {
    n /= 10;
    ++count;
  } while (n != 0);

printf("Number of digits: %d", count);
}
```

```
//8. Write a program to check whether a given number is a
Prime number or
//not
#include<stdio.h>
int main ()
{
   int i,x;
   printf("enter a number \n");
   scanf("%d",&x);
```

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for(i=1;i<=x-1;i++)</pre>
    if(x\%1==0)
    break;
    if(i==x)
        printf("the given number is prime number");
    else
        printf("the given number is not a prime number ");
#include <stdio.h>
int main() {
 int n1, n2, max;
    printf("Enter two positive integers: ");
   scanf("%d %d", &n1, &n2);
    max = (n1 > n2) ? n1 : n2;
    while (1) {
        if ((max \% n1 == 0) \&\& (max \% n2 == 0)) {
            printf("The LCM of %d and %d is %d.", n1, n2, max);
            break;
        ++max;
    return 0;
#include <stdio.h>
int main()
 int n, r = 0;
 printf("Enter a number to reverse\n");
 scanf("%d", &n);
```

```
while (n != 0)
{
    r = r * 10;
    r = r + n%10;
    n = n/10;
}
```

printf("Reverse of the number = %d\n", r);

```
return 0;
}
```