Assignment-6

1.write a program to calculate sum of first N natural numbers.

#include<stdio.h>

int main()

{

int i=1,n,s=0;

printf("enter a number");

scanf("%d",&n);

while(i<=n)

{

s=s+i;

i++;

}

printf("%d",s);

getch();

}

2. write a program to calculate sum of first N even natural numbers.

#include<stdio.h>

int main()

{

int i=1,n,s=0;

printf("enter a number");

scanf("%d",&n);

while(i<=n)

{

s=s+2\*i;

i++;

}

printf("%d",s);

getch();

}

3. write a program to calculate sum of first N odd natural numbers.

#include<stdio.h>

int main()

{

int i=1,n,s=0;

printf("enter a number");

scanf("%d",&n);

while(i<=n)

{

s=s+2\*i-1;

i++;

}

printf("%d",s);

getch();

}

4. write a program to calculate sum of square of first N natural numbers.

#include<stdio.h>

int main()

{

int i=1,n,s=0;

printf("enter a number");

scanf("%d",&n);

while(i<=n)

{

s=s+i\*i;

i++;

}

printf("%d",s);

getch();

}

5. write a program to calculate sum of cube of first N natural numbers.

#include<stdio.h>

int main()

{

int i=1,n,s=0;

printf("enter a number");

scanf("%d",&n);

while(i<=n)

{

s=s+i\*i\*i;

i++;

}

printf("%d",s);

getch();

}

6.write a program to calculate factural of a number.

#include<stdio.h>

int main()

{

int i=1,n,f=1;

printf("enter a number");

scanf("%d",&n);

while(i<=n)

{

f=f\*i;

i++;

}

printf("%d",f);

getch();

}

7. write a program to count digits in number.

#include<stdio.h>

int main()

{

int count=0,n;

printf("enter a number");

scanf("%d",&n);

while(n!=0)

{

n=n/10;

count++;

}

printf(" total digit %d ",count);

getch();

}

8.write a program to check wether a given number is a prime number or not

#include<stdio.h>

int main()

{

int i,n;

printf("enter a number");

scanf("%d",&n);

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

if(n%i==0)

break;

if(i==n)

printf("prime");

else

printf("not prime");

getch();

}

9. write a program to calculate LCM of two numbers.

#include<stdio.h>

int main()

{

int x,r,L;

printf("enter two number");

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

for(L=1;L<=x\*r;L++)

if(L%x==0 && L%r==0)

break;

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

getch();

}

10. write a program to reverse a given number.

#include<stdio.h>

int main()

{

int x,r,y=0;

printf("enter a number");

scanf("%d",&x);

while(x!=0)

{

r=x%10;

y=y\*10+r;

x=x/10;

}

printf("%d",y);

getch();

}