**Use any loop**

**Assignment – 6**

1. #include<stdio.h>

int main()

{

int a,b=0;

for(a=1;a<=10;a++)

b=b+a;

printf("Sum of first Natural no:-%d",b);

return 0;

}

2. #include<stdio.h>

int main()

{

int a,sum=0;

printf("ENTER LIMIT UPTO YOU WANT THE EVEN NO's SUM:-");

scanf("%d",&a);

for(int b=0;b<=a;b++)

if(b%2==0)

{

sum=sum+b;

}

printf("SUM OF 'N' EVEN NO IS:%d",sum);

return 0;

}

3. #include<stdio.h>

int main()

{

int a,b,sum=0;

printf("ENTER LIMIT UPTO YOU WANT THE ODD NO's SUM:-");

scanf("%d",&a);

for(b=1;b<=a;b++)

{

sum+=2\*b-1;

}

printf("SUM OF 'N' ODD NO IS:%d",sum);

return 0;

}

4. #include<stdio.h>

int main()

{

int a,b,sum=0;

printf("ENTER LIMIT UPTO YOU WANT SUM OF SQUARES:-");

scanf("%d",&a);

for(b=0;b<=a;b++)

{

sum+=b\*b;

}

printf("SUM OF SQUARES:=%d",sum);

return 0;

}

5. #include<stdio.h>

int main()

{

int a,b,sum=0;

printf("ENTER LIMIT UPTO YOU WANT SUM OF SQUARES:-");

scanf("%d",&a);

for(b=0;b<=a;b++)

{

sum+=b\*b\*b;

}

printf("SUM OF SQUARES:=%d",sum);

return 0;

}

6. #include<stdio.h>

int main()

{

int a,b,factorial=1;

printf("ENTER A NO U WANT FACTORIAL:=");

scanf("%d",&a);

for(b=1;b<=a;b++)

{

factorial=factorial\*b;

}

printf("FACTORIAL OF YOUR ENTERED NO IS:%d",factorial);

return 0;

}

7.#include<stdio.h>

int main()

{

long long a,b=0,c=0;

printf("ENTER DIGITS:-");

scanf("%d",&a);

do

{

b=a%10;

a=a/10;

c++;

}

while(a!=0);

printf("NO OF DIGITS ARE:=%d",c);

return 0;

}

8. #include<stdio.h>

int main()

{

int a,b,c=0;

printf("ENTER A NO TO CHECK WHETHER IT IS PRIME:-");

scanf("%d",&a);

for(b=1;b<=a;b++)

{

if(a%b==0)

{

c++;

}

}

if(c==2)

printf("PRIME ");

else

printf("NOT PRIME");

return 0;

}

9. #include<stdio.h>

int main()

{

int a,b,c;

printf("ENTER FIRST NO=");

scanf("%d",&a);

printf("ENTER SECOND NO=");

scanf("%d",&b);

for(c=1;c<=100;c++)

{

if((c%a==0)&&(c%b==0))

{

break;

}

}

printf("LCM IS:=%d",c);

return 0;

}

10. #include<stdio.h>

int main()

{

int a,b,c=0;

printf("ENTER NO's:=");

scanf("%d",&a);

while(a!=0)

{

b=a%10;

a=a/10;

c=c\*10+b;

}

printf("%d",c);

return 0;

}