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**A Job Ready Bootcamp in C++, DSA and IOT**

**Assignment – 6**

1).

#include<stdio.h>

#include<conio.h>

int main()

{

int i,N,s=0;

printf("Enter a value of N:");

scanf("%d",&N);

for(i=1;i<=N;i++)

s=s+i;

printf("%d",s);

getch();

}

2).

#include<stdio.h>

#include<conio.h>

int main()

{

int i,N,s=0;

printf("Enter a value of N:");

scanf("%d",&N);

for(i=1;i<=N;i++)

s=s+2\*i;

printf("%d",s);

getch();

}

3).

#include<stdio.h>

#include<conio.h>

int main()

{

int i,N,s=0;

printf("Enter a value of N:");

scanf("%d",&N);

for(i=1;i<=N;i++)

s=s+2\*i-1;

printf("%d",s);

getch();

}

4).

#include<stdio.h>

#include<conio.h>

int main()

{

int i,N,s=0;

printf("Enter a value of N:");

scanf("%d",&N);

for(i=1;i<=N;i++)

s=s+i\*i;

printf("%d",s);

getch();

}

5).

#include<stdio.h>

#include<conio.h>

int main()

{

int i,N,s=0;

printf("Enter a value of N:");

scanf("%d",&N);

for(i=1;i<=N;i++)

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

printf("%d",s);

getch();

}

6).

#include<stdio.h>

#include<conio.h>

int main()

{

float i,N,s=1;

printf("Enter a value of N:");

scanf("%f",&N);

for(i=1;i<=N;i++)

s=s\*i;

printf("Factorial of %f is %f",N,s);

getch();

}

7).

#include<stdio.h>

#include<conio.h>

int main()

{

int num,count=0;

printf("Enter number:");

scanf("%d",&num);

while(num)

{

num=num/10;

count++;

}

printf("Total digits in number:%d",count);

getch();

}

8).

#include<stdio.h>

#include<conio.h>

int main()

{

int num,i;

printf("Enter a natural number:");

scanf("%d",&num);

for(i=2;i<=num-1;i++)

if(num%i==0)

break;

if(num==i)

printf("Prime number");

else

printf("Not a prime number");

getch();

}

9).

#include<stdio.h>

#include<conio.h>

int main()

{

int num1,num2,L;

printf("Enter two numbers:");

scanf("%d %d",&num1,&num2);

for(L=num1>num2?num1:num2;L<=num1\*num2;L++)

if(L%num1==0 && L%num2==0)

{

printf("LCM of two numbers:%d",L);

break;

}

getch();

}

10).

#include<stdio.h>

#include<conio.h>

int main()

{

int num,rev=0,rem;

printf("Enter a number:");

scanf("%d",&num);

while(num!=0)

{

rem=num%10;

rev=rev\*10+rem;

num=num/10;

}

printf("Reverse of a given number :%d ",rev);

getch();

}