1)

#include <stdio.h>

int main()

{

int num=10;

double d=12.234567890012;

float f=12.345;

long l=1234567890;

char str[]="string";

printf("%d",num);

printf("\n%f",f);

printf("\n%lf",d);

printf("\n%ld",l);

printf("\n%s",str);

}

Output

10

12.34500

12.23456

1234567890

String

2)

#include <stdio.h>

int main()

{

int p=500;

float r=1.2;

int t=10;

float si=p\*r\*t/100;

printf("%f",si);

}

Output

60.000000

3)

#include <stdio.h>

int main()

{

int p=500,t=10;

float avg=(p+t)/2;

printf("%f",avg);

}

Output

255.000000

4)

#include <stdio.h>

int main()

{

int p=500,t=10,s=9;

float avg=(p+t+s)/3;

printf("%f",avg);

}

Output

173.000000

5)

#include <stdio.h>

int main()

{

int p=500,t=510;

(p>t)?printf("True"):printf("False");

}

Output

False

6)

#include <stdio.h>

int main()

{

int p=500;

int q=p>>1;

int c=p<<1;

printf("\n%d",q);

printf("\n%d",c);

}

Output

250

1000

7)

#include <stdio.h>

int main()

{

int c=50;

float f=(9\*c)/5+32;

printf("%f",f);

}

Output

122.000000

8)

#include <stdio.h>

int main()

{

int year;

printf("enter the year");

scanf("%d",&year);

if (year%100 == 0){

if (year%400==0){

printf("It is a leap year");

}

else{

printf("It is not a leap year");

}

}

else if (year %4==0){

printf("It is a leap year");

}

else{

printf("It is not a leap year");

}

}

Output

enter the year2100

It is not a leap year

9)

#include <stdio.h>

int main()

{

int n,a=0,b=1,c,i;

c=a+b;

printf("enter the number of terms ");

scanf("%d",&n);

printf("%d",a);

printf("\n%d",b);

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

a=b;

b=c;

c=a+b;

printf("\n%d",c);

}

}

Output

enter the number of terms 10

0

1

1

2

3

5

8

13

21

34

10)#include <stdio.h>

int main()

{

int a,b,c;

printf("Enter the 3 numbers");

scanf("%d",&a);

scanf("%d",&b);

scanf("%d",&c);

if (a>b){

if(a>c){

printf("%d",a);

}

else{

printf("%d",c);

}

}

else{

if (b>c){

printf("%d",b);

}

else{

printf("%d",c);

}

}

}

Output

Enter the 3 numbers12

23

11

23

11)

#include <stdio.h>

int main()

{

int a,fact=1,i;

scanf("%d",&a);

for(i=1;i<=a;i++){

fact\*=i;

}

printf("%d",fact);

}

Output

7

5040

12)

#include <stdio.h>

int main()

{

int a,d,sum=0;

scanf("%d",&a);

while (a>0){

d=a%10;

sum=sum+d;

a=a/10;

}

printf("%d",sum);

}

Output

5678

26

13)

#include <stdio.h>

int main()

{

int n,i;

scanf("%d",&n);

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

if(n%i==0){

break;

}

}

if (i==n){

printf("Prime");

}

else{

printf("Not prime");

}

}

Output

17

Prime