1)

#include <stdio.h>

int main()

{

int n;

printf("Enter the number");

scanf("%d",&n);

if(n>=0)

printf("Number is positive");

else

printf("The number is nagative");

return 0;

}

2)

#include <stdio.h>

int main()

{

int n;

printf("Enter the number");

scanf("%d",&n);

if(n%5==0)

printf("Number is divisible by 5");

else

printf("Number is not divisible by 5");

return 0;

}

3)

#include <stdio.h>

int main()

{

int n;

printf("Enter the number");

scanf("%d",&n);

if(n%2==0)

printf("Number is even");

else

printf("Number is odd");

return 0;

}

4)

#include <stdio.h>

int main()

{

int x;

printf("Enter the number");

scanf("%d",&x);

int result=x&1;

if(result==1);

printf("Odd");

else

printf("Even");

return 0;

}

5)

#include <stdio.h>

int main()

{

int n;

printf("Enter the number");

scanf("%d",&n);

if((n<1000)&&(n>99))

printf("Number is three digit");

else

printf("Number is not three digit");

return 0;

}

6)

#include <stdio.h>

int main()

{

int a,b;

printf("Enter the number");

scanf("%d",&a);

printf("Enter the number");

scanf("%d",&b);

if(a>=b)

printf("The greater number is:%d",a);

else

printf("The smaller number is:%d",b);

return 0;

}

7)

#include <stdio.h>

int main()

{

int d,a,b,c;

printf("Enter the value of a,b,c");

scanf("%d%d%d",&a,&b,&c);

d=b\*b-4\*a\*c;

if(d>0)

printf("The roots are real and distinct");

else if(d==0)

printf("The roots are real and equal");

else

printf("The roots are imaginary");

return 0;

}

8)

#include <stdio.h>

int main()

{

int x;

printf("Enter the leap year");

scanf("%d",&x);

if((x%400==0)||((x%4==0)&&(x%100!=0)))

printf("It is a leap year");

else

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

return 0;

}

9)

#include <stdio.h>

int main()

{

int a,b,c;

printf("Enter the number");

scanf("%d",&a);

printf("Enter the number");

scanf("%d",&b);

printf("Enter the number");

scanf("%d",&c);

if((a>=b)&&(a>=c))

printf("The greatest number is:%d",a);

else if((b>=c)&&(b>=a))

printf("The greatest is:%d",b);

else

printf("The greatest number is:%d",c);

return 0;

}

10)

#include <stdio.h>

int main()

{

float sp,cp;

printf("Enter the cost price");

scanf("%f",&cp);

printf("Enter the selling price");

scanf("%f",&sp);

if(sp>cp)

printf("The profit percentage is:%.2f%%\n",((sp-cp)/cp)\*100);

else

printf("The loss percentage is:%.2f%%\n",((cp-sp)/cp)\*100);

return 0;

}

11)

#include <stdio.h>

int main()

{

int a,b,c,d,e ;

printf("Enter the marks");

scanf("%d%d%d%d%d",&a,&b,&c,&d,&e);

if((a>=33)&&(b>=33)&&(c>=33)&&(d>=33)&&(e>=33))

printf("The candidate has passed");

else

printf("The candidate has failed");

return 0;

}

12)

#include <stdio.h>

int main()

{

char a;

printf("Enter the alphabet");

scanf("%c",&a);

if((a>=65)&&(a<=90))

printf("The alphabet is uppercase");

else

printf("The alphabet is lowercase");

return 0;

}

13)

#include <stdio.h>

int main()

{

int a;

printf("Enter the number");

scanf("%d",&a);

if((a%3==0)&&(a%2==0))

printf("The number is divisible by 3 and 2");

else

printf("The number is not divisible by 3 and 2 ");

return 0;

}

14)

#include <stdio.h>

int main()

{

int a;

printf("Enter the number");

scanf("%d",&a);

if((a%7==0)||(a%3==0))

printf("The number is divisible by 7 or 3");

else

printf("The number is not divisible by 7 or 3 ");

return 0;

}

15)

#include <stdio.h>

int main()

{

int a;

printf("Enter the number");

scanf("%d",&a);

if(a>0)

printf("The number is positive");

else if(a<0)

printf("The number is negative ");

else

printf("The number is zero");

return 0;

}

16)

#include <stdio.h>

int main()

{

char a;

printf("Enter the input");

scanf("%c",&a);

if((a>=65)&&(a<=90))

printf("It is a alphabet uppercase ");

else if((a>=97)&&(a<=122))

printf("It is a alphabet lowercase");

else if((a>=48)&&(a<=57))

printf("It is a digit");

else

printf("It is a special char");

return 0;

}

17)

#include <stdio.h>

int main()

{

int a,b,c;

printf("Enter the lengths");

scanf("%d%d%d",&a,&b,&c);

if((a+b>c)&&(b+c>a)&&(a+c>b))

printf("It is a triangle ");

else

printf("It is not a triangle");

return 0;

}

18)

#include <stdio.h>

int main()

{

int x;

printf("Enter the month number");

scanf("%d",&x);

if(x==1)

printf("31");

else if (x==2)

printf("28");

else if (x==3)

printf("31");

else if (x==4)

printf("30");

else if (x==5)

printf("31");

else if (x==6)

printf("30");

else if (x==7)

printf("31");

else if (x==8)

printf("31");

else if (x==9)

printf("30");

else if (x==10)

printf("31");

else if (x==11)

printf("30");

else

printf("31");

return 0;

}