1)

#include<stdio.h>

int main()

{

int n;

printf("Enter the number:");

scanf("%d",&n);

if(n>0)

printf("Positive");

else

printf("Non positive");

return 0;

}

2)

#include<stdio.h>

int main()

{

int n;

printf("Enter the number:");

scanf("%d",&n);

if(n%5==0)

printf("Divisible by 5");

else

printf("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("Even");

else

printf("Odd");

return 0;

}

4)

#include<stdio.h>

int main()

{

int n;

printf("Enter a number:");

scanf("%d",&n);

if(n&1==1)

printf("Odd number");

else

printf("Even number");

return 0;

}

5)

#include<stdio.h>

int main()

{

int n;

printf("Enter the number:");

scanf("%d",&n);

if(n>99&&n<1000)

printf("3 digit number");

else

printf("Not a 3 digit number");

return 0;

}

6)

#include<stdio.h>

int main()

{

int a,b;

printf("Enter the two numbers:");

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

if(a>=b)

printf("%d",a);

else

printf("%d",b);

return 0;

}

7)

#include<stdio.h>

int main()

{

int a,b,c,D;

printf("Enter the a,b,c:");

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

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

if(D>0)

printf("Real and distinct");

else if(D==0)

printf("Real and equal");

else

printf("Imaginary");

return 0;

}

8)

#include<stdio.h>

int main()

{

int a;

printf("Enter the year:");

scanf("%d",&a);

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

printf("Leap year");

else

printf("Not leap year");

return 0;

}

9)

#include<stdio.h>

int main()

{

int a,b,c;

printf("Enter the three numbers:");

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

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

printf("%d",a);

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

printf("%d",b);

else

printf("%d",c);

return 0;

}

10)

#include<stdio.h>

int main()

{

float c,s,result;

printf("Enter the cost price:");

scanf("%f",&c);

printf("Enter the selling price:");

scanf("%f",&s);

result=(s-c)/c\*100;

if(s>c)

printf("Profit percentage =%.2f%%",result);

else

printf("Loss percentage =%.2f%%",-result);

return 0;

}

11)

#include<stdio.h>

int main()

{

int a,b,c,d,e;

printf("Enter the marks of 5 subjects:");

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

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

printf("Passed");

else

printf("Failed");

return 0;

}

12)

#include<stdio.h>

int main()

{

char n;

printf("Enter the character:");

scanf("%c",&n);

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

printf("Upper case");

else

printf("Lower case");

return 0;

}

13)

#include<stdio.h>

int main()

{

int n;

printf("Enter the number:");

scanf("%d",&n);

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

printf("Divisible by 3 and 2");

else

printf("Not divisible by 3 and 2");

return 0;

}

14)

#include<stdio.h>

int main()

{

int n;

printf("Enter the number:");

scanf("%d",&n);

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

printf("Divisible by 7 or 3");

else

printf("Not divisible by 7 or 3");

return 0;

}

15)

#include<stdio.h>

int main()

{

int n;

printf("Enter the number:");

scanf("%d",&n);

if(n==0)

printf("Zero");

else if(n>0)

printf("Positive");

else

printf("Negative");

return 0;

}

16)

#include<stdio.h>

int main()

{

char n;

printf("Enter the character:");

scanf("%c",&n);

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

printf("Upper case");

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

printf("Lower case");

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

printf("Digit");

else

printf("Special character");

return 0;

}

17)

#include<stdio.h>

int main()

{

int a,b,c;

printf("Enter the lengths of the triangle:");

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

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

printf("Triangle is valid");

else

printf("Triangle is not valid");

return 0;

}

18)

#include<stdio.h>

int main()

{

int a;

printf("Enter the month number:");

scanf("%d",&a);

if(a==2)

printf("Number of days=%d",28);

else if(a==1||a==3||a==5||a==7||a==8||a==10||a==12)

printf("Number of days=%d",31);

else

printf("Number of days=%d",30);

return 0;

}