

```
1.#include<stdio.h>
int main()
{
    int a;
    printf("enter the number\n");
    scanf("%d",&a);
    if(a>0)
        printf("positive");
    else
        printf("non positive");
    return 0;
}
```

```
2.
#include<stdio.h>
int main()
{
    int a;
    printf("enter the number\n");
    scanf("%d",&a);
    if(a%5==0)
        printf("it is divisible by 5");
    else
        printf("it is not divisible by 5 ");
    return 0;
}
```

```
3.
#include<stdio.h>
int main()
{
    int a;
    printf("enter the number\n");
    scanf("%d",&a);
    if(a%2)
        printf("odd no.");
    else
        printf("even no.");
    return 0;
}
```

```
4.
#include<stdio.h>
int main()
{
    int a;
    printf("enter the number\n");
    scanf("%d",&a);
    if((a/2)*2==a)
        printf("even");
    else
        printf("odd");
    return 0;
}
```

5.

```
#include<stdio.h>
int main()
{
    int a;
    printf("enter the number\n");
    scanf("%d",&a);
    if((((a/10)/10)/10)==0)
        printf("three digit no.");
    else
        printf("not three no.");
    return 0;
}
```

6.

```
#include<stdio.h>
int main()
{
    int a,b;
    printf("enter the number\n");
    scanf("%d%d",&a,&b);
    a>b?printf("%d is grater",a):printf("%d is grater",b);
    return 0;
}
```

7.

```
#include<stdio.h>
int main()
{
    int a,b,c;
    printf("enter the no.");
    scanf("%d%d%d",&a,&b,&c);
    a=b*b-4*a*c;
    if(a>0)
        printf("real and distint");
    if(a<0)
        printf("imaginary part");
    if(a==0)
        printf("real and equal");
    return 0;
}
```

8.

```
#include<stdio.h>
int main()
{
    int a,b,c;
    printf("enter the no.");
    scanf("%d%d%d",&a,&b,&c);
    a=b*b-4*a*c;
    if(a>0)
        printf("real and distint");
    if(a<0)
        printf("imaginary part");
    if(a==0)
        printf("real and equal");
}
```

```
    return 0;
}
```

9.

```
#include<stdio.h>
int main()
{
    int a,b,c,x;
    printf("enter the no.\n");
    scanf("%d%d%d",&a,&b,&c);
    x=a>b?a>c?a:c:b>c?b:c;
    printf("%d",x);
    return 0;
}
```

10.

```
#include<stdio.h>
int main()
{
    int a,b,p;
    printf("enter the cost price and selling price\n");
    scanf("%d%d",&a,&b);
    if(a>b)
    {
        p=a-b;
        printf("%d%% is loss ",(p*100)/a);
    }
    if(a<b)
    {
        p=b-a;
        printf("%d%% is profit", (p*100)/a);
    }
    if(a==b)
        printf("no profit no loss");
    return 0;
}
```

11.

```
#include<stdio.h>
int main()
{
    int a,b,c,d,e,x=0;
    printf("enter the number\n");
    scanf("%d%d%d%d%d",&a,&b,&c,&d,&e);
    if(a>=33&&b>=33&&c>=33&&d>=33&&e>=33)
        printf("pass");
    else
        printf("FAIL");
    return 0;
}
```

12.

```
#include<stdio.h>
int main()
{
    char a;
```

```

printf("enter the alphabates\n");
scanf("%c",&a);
if(a>='A'&&a<='Z')
    printf("upar case");
if(a>='a'&&a<='z')
    printf("lower case");
return 0;
}

```

13.

```

#include<stdio.h>
int main()
{
    int a;
    printf("enter the number\n");
    scanf("%d",&a);
    if(a%2==0&&a%3==0)
        printf("it is divisible by 3&2");
    else
        printf("not divisible");
    return 0;
}

```

14.

```

#include<stdio.h>
int main()
{
    int a;
    printf("enter the number\n");
    scanf("%d",&a);
    if(a%7==0&&a%3==0)
        printf("divisible by 7,3");
    else if(a%7==0)
        printf(" by only 7");
    else if(a%3==0)
        printf("by only 3");
    else
        printf("not by 7,3");
    return 0;
}

```

15.

```

#include<stdio.h>
int main()
{
    int a;
    printf("enter the number\n");
    scanf("%d",&a);
    if(a>0)
        printf("positive");
    else if(a<0)
        printf("negative");
    else
        printf("zero");
    return 0;
}

```

16.

```
#include<stdio.h>
int main()
{
    char a;
    printf("enter the number\n");
    scanf("%c",&a);
    if(a>='a'&&a<='z')
        printf("lower case");
    else if(a>='A'&&a<='Z')
        printf("uper case");
    else
        printf("special character");
    return 0;
}
```

17.

```
#include<stdio.h>
int main()
{
    int a,b,c;
    printf("enter the nubmer\n");
    scanf("%d%d%d",&a,&b,&c);
    if(a+b>c&&b+c>a&&c+a>b)
        printf("valid traingle");
    else
        printf("not valid traingle");
    return 0;
}
```

18.

```
#include<stdio.h>
int main()
{
    int a;
    printf("ENTER THE NUBMER\n");
    scanf("%d",&a);
    if(a%2==0)
    {
        if(a==2)
            printf("28/29");
        else
            printf("30");
    }
    else
        printf("31");
    return 0;
}
```