

1.

```
#include<stdio.h>
```

```
int main(){
```

```
    int x;
```

```
    printf("Enter a number:\n");
```

```
    scanf("%d",&x);
```

```
    if(x>0)
```

```
        printf("Positive");
```

```
    else
```

```
        printf("Non-positive");
```

```
    return 0;
```

```
}
```

C:\Users\MADHAV\Desktop\new.exe

Enter a number:

4

Positive

-----

Process exited after 6.136 seconds with return value 0

Press any key to continue . . .

2.

```
#include<stdio.h>
```

```
int main(){
```

```
    int x;
```

```
    printf("Enter a number:\n");
```

```
    scanf("%d",&x);
```

```
    printf(x%5==0?"Number is divisible by 5":"Number is not divisible  
by 5");
```

```
        return 0;
    }
```

C:\Users\MADHAV\Desktop\new.exe

```
Enter a number:
56
Number is not divisible by 5
-----
Process exited after 6.865 seconds with return value 0
Press any key to continue . . .
```

3.

```
#include<stdio.h>

int main(){
    int x;

    printf("Enter a number:\n");
    scanf("%d",&x);
    printf(x%2==0?"even":"odd");

    return 0;
}
```

C:\Users\MADHAV\Desktop\new.exe

```
Enter a number:
54
even
-----
Process exited after 4.848 seconds with return value 0
Press any key to continue . . .
```

4.


```
#include<stdio.h>

int main(){
    int x;
```

```

printf("Enter a number:\n");
scanf("%d",&x);
if(x&1)
    printf("odd");
else
    printf("even");
    return 0;
}

```

 C:\Users\MADHAV\Desktop\new.exe

```

Enter a number:
56
even
-----
Process exited after 2.475 seconds with return value 0
Press any key to continue . . .

```

5.

```

#include<stdio.h>

int main(){
    int x;
    printf("Enter a number:\n");
    scanf("%d",&x);
    if(x>99&& x<999)
        printf("Three digit number");
    else
        printf("Not a three digit number");
    return 0;
}

```

C:\Users\MADHAV\Desktop\new.exe

```
Enter a number:
56
Not a three digit number
-----
Process exited after 2.422 seconds with return value 0
Press any key to continue . . .
```

6.

```
#include<stdio.h>
```

```
int main(){
```

```
    int x,y;
```

```
    printf("Enter two number:\n");
```

```
    scanf("%d %d",&x,&y);
```

```
    if(x>y)
```

```
        printf("Greater is %d",x);
```

```
    else if(x<y)
```

```
        printf("Greater is %d",y);
```

```
    else
```

```
        printf("%d and %d are equal",x,y);
```

```
    return 0;
```

```
}
```

C:\Users\MADHAV\Desktop\new.exe

```
Enter two number:
56
23
Greater is 56
-----
Process exited after 4.524 seconds with return value 0
Press any key to continue . . .
```

7.

```
#include<stdio.h>
```

```
#include<math.h>
```

```
int main(){
```

```
    int a,b,c,D;
```

```
    float x,y;
```

```
    printf("Enter coefficient of quadratic equation:\n");
```

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

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

```
    if(D==0){
```

```
        printf("Roots are equal");
```

```
        x=-b/(2.0*a);
```

```
        printf("Root is %.2f",x);
```

```
    }
```

```
    if(D>0){
```

```
        printf("Roots are real and distinct");
```

```
        x=(-b+sqrt(D))/(2*a);
```

```
        y=(-b-sqrt(D))/(2*a);
```

```
        printf("\n Roots are: %.2f %.2f",x,y);
```

```
    }
```

```
    if(D<0)
```

```
        printf("Roots are imaginary");
```

```
    return 0;
```

```
}
```

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```
Enter coefficient of quadratic equation:
1      -6      9
Roots are equalRoot is 3.00
-----
Process exited after 8.235 seconds with return value 0
Press any key to continue . . .
```

8.

```
#include<stdio.h>
```

```
int main(){
    int year;
    printf("Enter a year:\n");
    scanf("%d",&year);
    if(year%400==0 || year%4==0&&year%100!=0)
        printf("Year is leap year");
    else
        printf("Year is not a leap year");
    return 0;
}
```

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```
Enter a year:
2022
Year is not a leap year
-----
Process exited after 4.26 seconds with return value 0
Press any key to continue . . .
```

9.

```
#include<stdio.h>
```

```
int main(){
```

```

int a,b,c,k;

printf("Enter a 3 digits:\n");

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

if(a>b&&a>c)

k=a;

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

k=b;

else

k=c;

printf("greater is %d",k);

}

```



```

C:\Users\MADHAV\Desktop\new.exe
Enter a 3 digits:
4
5
6
greater is 6
-----
Process exited after 5.502 seconds with return value 12
Press any key to continue . . .

```

10.

```

#include<stdio.h>

int main(){

float cp,sp,x;

printf("Enter a cost price and selling price:\n");

scanf("%f %f",&cp,&sp);

if(cp<sp){

```


```

        x=(sp-cp)/cp*100;
        printf("profit is %.2f%%",x);
    }

    else if(cp>sp){
        x=(cp-sp)/cp*100;
        printf("loss is %.2f%%",x);
    }

    else
        printf("No profit no loss");
    return 0;
}

```

 C:\Users\MADHAV\Desktop\new.exe

```

Enter a cost price and selling price:
100
120
profit is 20.00%
-----
Process exited after 4.633 seconds with return value 0
Press any key to continue . . .

```

11.

```
#include<stdio.h>
```

```

    int main(){
        float m1,m2,m3,m4,m5;
        printf("Enter the five subjects marks:\n");
        scanf("%f %f %f %f %f",&m1,&m2,&m3,&m4,&m5);
        if(m1>33 && m2>33 && m3>33 && m4>33 && m5>33)

```



```

        printf("passed");

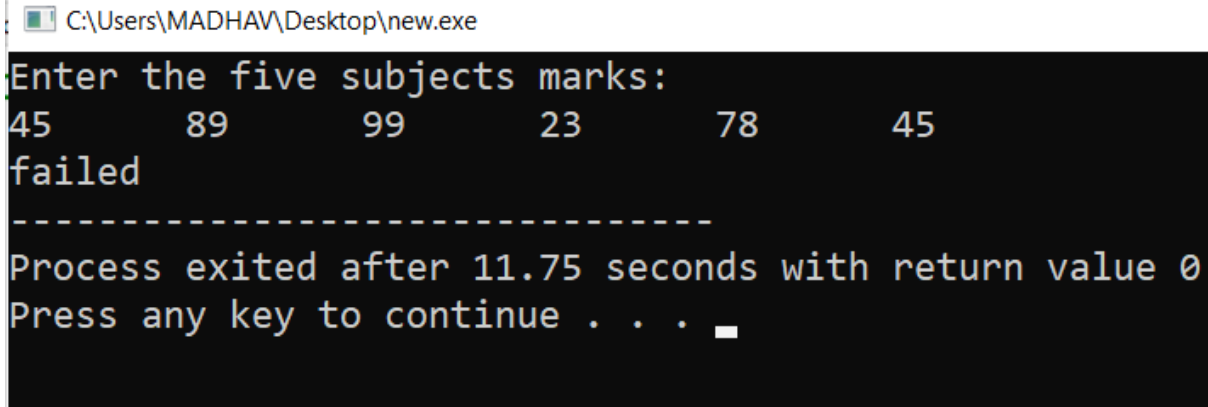
    else

        printf("failed");

    return 0;

}

```



```

C:\Users\MADHAV\Desktop\new.exe
Enter the five subjects marks:
45      89      99      23      78      45
failed
-----
Process exited after 11.75 seconds with return value 0
Press any key to continue . . .

```

12.

```
#include<stdio.h>
```

```

    int main(){

        char x;

        printf("Enter a Alphabet:\n");

        scanf("%c",&x);

        if(x>='A'&&x<='Z')

            printf("Uppercase");

        else

            printf("Lowercase");

        return 0;

    }

```

```
C:\Users\MADHAV\Desktop\new.exe
Enter a Alphabet:
Q
Uppercase
-----
Process exited after 4.749 seconds with return value 0
Press any key to continue . . .
```

13.

```
#include<stdio.h>

int main(){
    int x;
    printf("Enter a number:\n");
    scanf("%d",&x);
    if(x%3==0&&x%2==0)
        printf("Divisible by 3&2");
    else
        printf("Not divisible by 3&2");
    return 0;
}
```

```
C:\Users\MADHAV\Desktop\new.exe
Enter a number:
45
Not divisible by 3&2
-----
Process exited after 3.207 seconds with return value 0
Press any key to continue . . .
```

14.

```
#include<stdio.h>

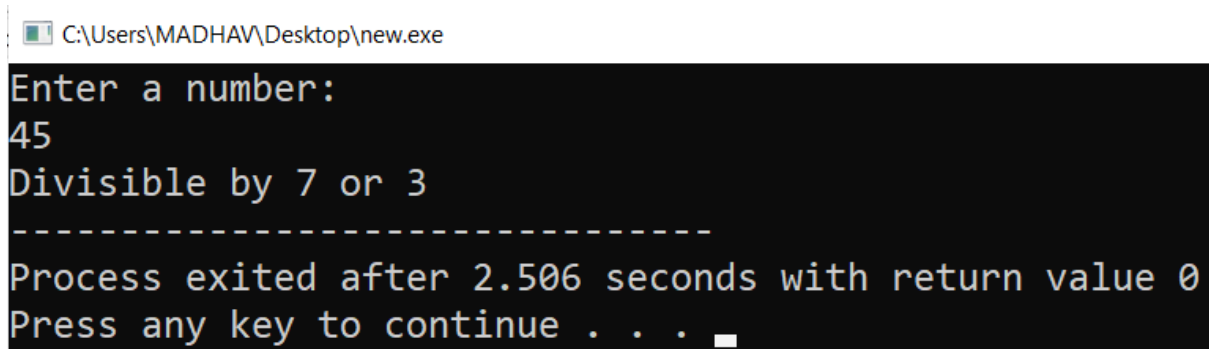
int main(){
```

```

    int x;

    printf("Enter a number:\n");
    scanf("%d",&x);
    if(x%7==0 || x%3==0)
        printf("Divisible by 7 or 3");
    else
        printf("Not divisible by 7 or 3");
    return 0;
}

```



```

C:\Users\MADHAV\Desktop\new.exe
Enter a number:
45
Divisible by 7 or 3
-----
Process exited after 2.506 seconds with return value 0
Press any key to continue . . .

```

15.

```


#include<stdio.h>

int main(){
    int x;

    printf("Enter a number:\n");
    scanf("%d",&x);
    if(x>0)
        printf("Positive");
    else if(x<0)
        printf("Negative");
    else

```

```
    printf("Zero");  
    return 0;  
}
```

 C:\Users\MADHAV\Desktop\new.exe

```
Enter a number:  
45  
Positive  
-----  
Process exited after 2.615 seconds with return value 0  
Press any key to continue . . .
```

16.

```
#include<stdio.h>  
  
int main(){  
    char x;  
    printf("Enter a character:\n");  
    scanf("%c",&x);  
    if(x>='A'&&x<='Z')  
        printf("Uppercase");  
    else if(x>='a'&&x<='z')  
        printf("Lowercase");  
    else if(x>='0'&&x<='9')  
        printf("Digit");  
    else  
        printf("Special character");  
    return 0;  
}
```

C:\Users\MADHAV\Desktop\new.exe

Enter a character:

"

Special character

-----

Process exited after 1.151 seconds with return value 0

Press any key to continue . . .

17.

```
#include<stdio.h>
```

```
int main(){
```

```
    int l1,l2,l3;
```

```
    printf("Enter the length of the sides of a triangle:\n");
```

```
    scanf("%d %d %d",&l1,&l2,&l3);
```

```
    if (l1+l2>l3)
```

```
        printf("Triangle is valid");
```

```
    else
```

```
        printf("Triangle is not valid");
```

```
    return 0;
```

```
}
```

C:\Users\MADHAV\Desktop\new.exe

Enter the length of the sides of a triangle:

4 8 9

Triangle is valid

-----

Process exited after 11.29 seconds with return value 0

Press any key to continue . . .

18.

```
#include<stdio.h>
```

```

int main(){
    int m;
    printf("Enter the month number:\n");
    scanf("%d",&m);
    if(m==1 || m==3 || m==5 || m==7 || m==8 || m==10 ||
m==12)
        printf("31 days in that month");
    else if(m==2)
        printf("28/29 days in that month");
    else
        printf("30 days in that month");
    return 0;
}

```

C:\Users\MADHAV\Desktop\new.exe

```

Enter the month number:
2
28/29 days in that month
-----
Process exited after 5.095 seconds with return value 0
Press any key to continue . . .

```