```
#include<stdio.h>
1
 2
    int main()
 3
 4
         char ch;
 5
        printf("Enter the character:");
        scanf("%c",&ch);
if(ch>=48 && ch<=57)
 6
7
 8
 9
            printf("character is %c digit",ch);
10
11
         else
12
             if(ch>=65 && ch<=90)
13
14
                 printf("character is %c upper case",ch);
15
16
17
18
             else
19
                 if(ch>=97 && ch<=122)
20
21
22
                     printf("character is %c lower case",ch);
23
24
             else
25
26
                printf("character is %c special character",ch);
27
28
29
        }
30
31
32
33
34
35
```

```
#include<stdio.h>
 1
 2
     int main()
 3
         int a,b,c;
printf("enter the length of sides a,b,c respectively");
scanf("%d %d %d" , &a,&b,&c);
 4
 5
 6
         if(a+b>c)
 8
             printf("the triangle is a valid triangle");
 9
10
       else
{
11
12
             printf("the triangle is not a valid triangle");
13
14
15
         return 0;
16
17
```

```
#include<stdio.h>
1
2
    int main()
 3
 4
         int n;
        printf("Enter any number:");
5
        scanf("%d", &n);

if((n%3==0 && n%2==0))
6
7
8
9
            printf("the number is divisible by both 3 and 2",&n);
10
       else
11
12
            printf("the number is not divisible by 3 and 2",&n);
13
14
15
        return 0;
16 }
17
```

```
#include<stdio.h>
 1
 2
      int main()
 3
 4
           int a,b,c,D;
          float x,y;
printf("Enter coefficient of x^2,x and constant term");
scanf("%d %d %d",&a,&b,&c);
 5
 6
           D=b*b-4*a*c;
 8
 9
           if(D<0)
10
                printf("both roots are imaginary");
11
12
13
14
               printf("both roots are equal");
x=-b/(2.0*a);
printf("roots is %f",x);
15
16
17
18
19
           if(D>0)
20
                printf("roots are real and imaginary"); x=(-b+sqrt(D))/(2*a);
21
22
               y=(-b-sqrt(D))/(2*a);
23
               printf("\nroots are: %f,%f",x,y);
24
25
26
           return 0;
27
28
29
```

```
1
2
     #include<stdio.h>
     int main()
 3
         int sp,cp,p,l;
printf("\n enter the selling price and cost price");
scanf("%d %d",&sp,&cp);
 4
 5
 6
          if(sp>cp)
 8
             printf("\n profit %d",sp-cp);
 9
10
         else
11
12
              printf("\n loss %d",cp-sp);
13
14
15
         return 0;
16 }
17
```

```
#include<stdio.h>
int main()
 1
2
 3
 4
       int n;
       printf("Enter the number:");
scanf("%d",&n);
if(n>0)
 5
 6
 8
          printf("the number is positive");
 9
10
      if(n<=0)
{
11
12
13
           printf("the number is negative");
14
    return 0;
15
16
17
```

```
1
2
     #include<stdio.h>
     int main()
 3
          int n;
         printf("Enter a number:");
scanf("%d",&n);
if((n/2)*2 == n)
 5
 6
 8
             printf("%d is even number\n",n);
 9
10
         else
11
12
13
              printf("%d is odd number\n",n);
14
15
         return 0;
16 }
17
```

```
1
2
     #include<stdio.h>
     int main()
 3
          int n;
         printf("Enter a number:");
scanf("%d",&n);
if((n/2)*2 == n)
 5
 6
 8
             printf("%d is even number\n",n);
 9
10
         else
11
12
13
              printf("%d is odd number\n",n);
14
15
         return 0;
16 }
17
```

```
1
2
     #include<stdio.h>
      int main()
 3
          int num;
printf("Enter the number:");
scanf("%d",&num);
if(num%2==0)
 5
 6
7
 8
               printf("number is %d even", num);
10
          else
11
12
13
               printf("number is %d odd", num);
14
15
          return 0;
16
17
```

```
#include<stdio.h>
 1
 2
    int main()
 3
 4
        int n;
        printf("enter the number:");
scanf("%d",&n);
 5
 6
        if(n>0)
 8
            printf("the number %d is positive",n);
 9
10
      if(n<0)
11
12
            printf("the number %d is negative",n);
13
14
      if(n==0)
{
15
16
17
            printf("the number %d is zero",n);
18
19
20 }
        return 0;
21
```

```
#include<stdio.h>
 1
2
     int main()
 3
 4
          int n;
         printf("Enter the number:");
scanf("%d",&n);
if(n%7==0 || n%3==0)
 5
 6
7
 8
 9
             printf("the number is divisible by 7 or 3",&n);
10
       else
11
12
             printf("the number is not divisible by 7 or 3",&n);
13
14
15
        return 0;
16
17
18
19
    }
20
```

```
1
2
     #include<stdio.h>
     int main()
 3
 4
          int num;
         printf("Enter the number:");
scanf("%d", &num);
if(num%5==0)
 5
 6
7
 8
              printf("the number is %d divisible by 5", num);
 9
10
         else
11
12
13
              printf("the number is %d not divisible by 5", num);
14
15
         return 0;
16
17
```

```
1
2
     #include<stdio.h>
     int main()
 3
 4
          int n;
         printf("Enter any number:");
scanf("%d",&n);
if(n>=100 && n<=999)</pre>
 5
 6
 8
              printf("number is three digit number",n);
 9
10
         else
11
12
              printf("number is not three digit number",n);
13
14
15
         return 0;
16 }
17
```

```
#include<stdio.h>
 1
 2
    int main()
 3
 4
         int year;
        printf("Enter a year");
scanf("%d",&year);
 5
6
         if(year%4)
 8
 9
            printf("Not a leap year");
10
         else if(year%100)
11
12
            printf(" leap year");
13
14
15
         else if(year%400)
16
17
            printf("Not a leap year");
18
         else
19
20
       printf("leap year");
}
21
22
23
       return 0;
24
25 }
26
```

```
#include<stdio.h>
 1
 2
     int main()
 3
 4
         int a,b,c;
        printf("Enter any three numbers:");
scanf("%d %d %d",&a,&b,&c);
 5
 6
         if(a>b)
 8
 9
             if(a>c)
10
                  printf("a is %d the greatest number",a);
11
12
13
14
                 printf("c is %d the greatest number",c);
15
16
17
18
         else
19
20
             if(b>c)
21
22
                  printf("b is %d the greatest number",b);
23
             else
24
25
26
                 printf("c is %d the greatest number",c);
27
28
29
         return 0;
30
31
    }
32
33
```

```
1
2
    #include<stdio.h>
     int main()
 3
        int a,b;
printf("enter two numbers\n:");
scanf("%d %d",&a,&b);
 4
 5
 6
         if(a>b)
 8
            printf("greatest number is %d",a);
 9
10
       else
{
11
12
13
             printf("greatest number is %d",b);
14
15
        return 0;
16 }
17
```

```
#include<stdio.h>
 1
 2
     int main()
 3
         char ch;
printf("Enter the character:");
scanf("%c",&ch);
if(ch>=65 && ch<=90)</pre>
 4
 5
 6
 8
 9
              printf("charter is in upper case %c",ch);
10
        else
11
12
               if(ch>=97 && ch<=122)
13
14
                   printf("charter is in lower case %c",ch);
15
16
17
18
19 }
          return 0;
20
```