```c
A 1 - int a;

  printf("enter the value of a ");
  scanf("%d", &a);

  if (a>10){
  printf("a is greater than 10");
  }

  else{
  printf("enter a value which is greater than 10");

   }


A 2 - int a;

  printf("enter the value of a ");
  scanf("%d", &a);

  if (a>50){
  printf("a is greater than 50");
  }

  else{
  printf("enter a value which is greater than 50");

   }


A 3 - int a;

  printf("enter the value of a ");
  scanf("%d", &a);

  if (a<100){
  printf("a is less than 100");
  }

  else{
  printf("enter a value which is less than 100");

   }
```

A 4 - int a;

```c
printf("enter the number ");
scanf("%d",&a);

if (a%2==0) {
printf("even");
}

else {
  printf("odd");

}
```

A 5 - int a;

```c
printf("enter the number ");
scanf("%d", &a);

if (a%5==0) {
  printf("divisible by 5 ");
}

else {
printf("not divisible by 5 ");
  }
```

A 6 - int a;

```c
printf("enter the number ");
scanf("%d", &a);

if (a%72==0) {
  printf("divisible by 72 ");
}

else {
printf("not divisible by 72 ");
  }
```

```
A 7 - char a;

  printf("Enter the value ");
  scanf("%c", &a);

  if (a=='a') {
  printf("apple");
  }

  else {
  printf("input is not matched");

  }


return 0;
}




A  8 - char b;

  printf("Enter the value ");
  scanf("%c", &b);

  if (b=='b') {
  printf("ball");
  }

  else {
  printf("input is not matched");

  }


A 9 - char a;

  printf("enter the value ");
  scanf("%c", &a);

  if (a== 'a') {

  int a,b;
```

```c
    printf("enter the value of a & b");
    scanf("%d %d", &a,&b);

    int c= a + b;
    printf("%d",c);


    }

    else{
      printf("input is not valid ");
      }


A 10 - char s;

    printf("enter the value ");
    scanf("%c", &s);

    if (s== 's') {

    int a,b;
    printf("enter the value of a & b ");
    scanf("%d %d", &a,&b);

    int c= a-b;
    printf("%d",c);

    }

    else{
      printf("input is not valid ");
      }


A 11 - char m;

    printf("enter the value ");
    scanf("%c", &m);

    if (m== 'm') {

    int a,b;
    printf("enter the value of a & b ");
    scanf("%d %d", &a,&b);
```

```c
    int c= a*b;
    printf("%d",c);


    }

    else{
      printf("input is not valid ");
      }
```

A 12 -
```c
char d;

    printf("enter the value ");
    scanf("%c", &d);

    if (d== 'd') {

    int a,b;
    printf("enter the value of a & b ");
    scanf("%d %d", &a,&b);

    int c= a/b;
    printf("%d",c);


    }

    else{
      printf("input is not valid ");
      }
```

A 13 -
```c
int a, b;
    char input;

     printf("Enter a character: ");
    scanf(" %c", &input);

    if (input == 's') {
        printf("Enter the value of a: ");
        scanf("%d", &a);
```

```c
    printf("Enter the value of b: ");
    scanf("%d", &b);

    printf("The real value of a is: %d\n", a);
    printf("The real value of b is: %d\n", b);


    a = a + b;
    b = a - b;
    a = a - b;

    printf("The swapped value of a is: %d\n", a);
    printf("The swapped value of b is: %d\n", b);
 } else {
    printf("You did not enter 's'. No swap performed.\n");
 }
```

A 14 -
```c
int a, b, c;
    char input;

        printf("Enter a character: ");
    scanf(" %c", &input);

        if (input == 'w') {
        printf("Enter the value of a: ");
        scanf("%d", &a);

        printf("Enter the value of b: ");
        scanf("%d", &b);

        printf("The real value of a is: %d\n", a);
        printf("The real value of b is: %d\n", b);


        c = a;
        a = b;
        b = c;

        printf("The swapped value of a is: %d\n", a);
        printf("The swapped value of b is: %d\n", b);
    } else {

        printf("You did not enter 'w'. No swap performed.\n");
```

```
        }


A 15 - int a;

 printf("enter the number ");
 scanf("%d",&a);

 if (a%4==0 && a%2==0) {
 printf("divisible by 2 & 4");
 }

 else {
   printf("not divisible by 2 & 4");

 }

A 16 - int a;

 printf("enter the number ");
 scanf("%d",&a);

 if (a%9==0 || a%2==0) {
 printf("divisible by 2 & 9");
 }

 else {
   printf("not divisible by 2 & 9");


A 17 -  int a;

 printf("enter the number ");
 scanf("%d",&a);

 if (a%21==0) {
 printf("divisible by 21");
 }

 else {
   printf("not divisible by 21");
 }
```

A 18 - int a;

```c
printf("enter the age ");
scanf("%d",&a);

if (a>=18) {
printf("eligible for voting");
}

else {
printf("not eligible for voting");

}
```

A 19 - int a;

```c
printf("enter the number ");
scanf("%d", &a);

if (a==1) {
printf("matched");

}

else {
  printf("not matched");
}
```

A 20 - int a;

```c
printf("enter the number ");
scanf("%d", &a);

if (a==4) {
printf("matched");

}

else {
  printf("not matched");
}
```

A 21 - int a;

```c
printf("enter the number ");
scanf("%d",&a);


if (a% 2 == 0 &&  a% 3 == 0 && a % 4 == 0 && a % 6 == 0) {
    printf("The number is divisible by 2, 3, 4, and 6\n");
}

else {
    printf("The number is not divisible by 2, 3, 4, and 6\n");
}
```

A 22 -
```c
int a;

printf("enter the number ");
scanf("%d",&a);

if (a%2==0 || a%3==0 || a%4==0 || a%6==0 ) {
printf("divisible by 2,3,4 & 6");
}

else {
printf("not divisible by 2,3,4 & 6");
}
```