

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;

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

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

```
else {  
    printf("odd");
```

```
}
```

A 5 - int a;

```
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;

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

}

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

```

A 12 - 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 - int a, b;

```

char input;

printf("Enter a character: ");

```

```

scanf(" %c", &input);

if (input == 's') {
    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);

    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 - 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;  
  
printf("enter the age ");  
scanf("%d",&a);  
  
if (a>=18) {  
    printf("eligible for voting");  
}  
  
else {  
    printf("not eligible for voting");  
}  
  
}
```

```
A 19 - int a;  
  
printf("enter the number ");  
scanf("%d", &a);  
  
if (a==1) {  
    printf("matched");  
}  
  
else {  
    printf("not matched");  
}  
  
}
```

```
A 20 - int a;  
  
printf("enter the number ");  
scanf("%d", &a);
```



```

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

}

else {
    printf("not matched");
}
A 21 - int a;

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 -
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");
}

```