```c
#include <stdio.h>
#include <conio.h>
void main()
{
    int a;
    clrscr();
    printf("Enter an int:");
    scanf("%d",&a);

    if(a%2==0)
    {
        printf("Number is even");
    }
    else
    {
        printf("Number is odd");
    }
    getch();
}
```

Rules Regarding Braces Used With Conditional Statements

```
if ( test_ cond )
{
        Stmt 1;
    }
Stmt 2;
stmt 3;
```

```
if ( test_ cond )
        stmt 1;

        stmt 2;

        stmt 3.
```

```c
if(a>0)
    {
        printf("Number is pos");
        printf("\nHello");
    }
if(a<0)
    {
        printf("\nNumber is neg");
        printf("\nWelcome");
    }
```

```c
if(a>0)

        printf("Number is pos");
        printf("\nHello");
if(a<0)
        printf("\nNumber is neg");
        printf("\nWelcome");
```

SAMPLE INPUTS:
==============
1.
      10
Number is pos
Hello
Welcome

2.
      -5
Hello
Number is neg
Welcome

3.
      0
Hello
Welcome

```
if(a>0)
      printf("Number is pos");
      printf("\nHello");
else
      printf("\nNumber is neg");
      printf("\nWelcome");
```

Syntax Error!

```
if(a>0)
   {
      printf("Number is pos");
      printf("\nHello");
   }
else
      printf("\nNumber is neg");
      printf("\nWelcome");
```

SAMPLE INPUTS:
==============
1.
      10
Number is pos
Hello
Welcome

2.
      -5
Number is neg
Welcome

3.
      0
Number is neg
Welcome

```
if(a>0)
  {
      printf("Number is pos");
      printf("\nHello");
  }
else if(a<0)
  {
      printf("\nNumber is neg");
      printf("\nWelcome");
  }
```

WAP to accept 2 integers from the user and print the greater number amongst them. Make sure that your code handles EQUALITY of numbers also

```
#include <stdio.h>
#include <conio.h>
void main()
{
  int a,b;
  clrscr();
  printf("Enter 2 int:");
  scanf("%d %d",&a,&b);

  if(a>b)
      printf("%d is gr",a);
  else if(b>a)
      printf("%d is gr",b);
  else
      printf("%d is equal to %d",a,b);
  getch();
}
```

```
         [ 20 ]    [ 10 ]
            a         b
```

This is wrong logic!

```c
#include <stdio.h>
#include <conio.h>
void main()
{
    int a,b;
    clrscr();
    printf("Enter 2 int:");
    scanf("%d %d",&a,&b);
```

```c
    if(a>b)
        printf("%d is gr",a);
    if(b>a)
        printf("%d is gr",b);
    else
        printf("%d is equal to %d",a,b);
    getch();
}
```

WAP to accept a character from the user and check whether it is a vowel or not. Assume that user will input CAPITAL LETTER only

```
            [ 'I' ]
              ch
```

```c
#include <stdio.h>
#include3 <conio.h>
void main()
{
    char ch;
    clrscr();
    printf("Enter a char:");
    scanf("%c",&ch);
```

if(ch == 65)

```c
    if(ch=='A')
        printf("It is a vowel");
    else if(ch=='E')
        printf("It is a vowel");
    else if(ch=='I')
        printf("It is a vowel");
    else if(ch=='O')
        printf("It is a vowel");
    else if(ch=='U')
        printf("It is a vowel");
    else
        printf("It is not a vowel");
    getch();
}
```

```
            ┌─────────┐
            │   'E'   │
            └─────────┘
               ch

#include <stdio.h>              if(ch=='A' || ch=='E'|| ch=='I'|| ch=='O' || ch=='U' )
#include3 <conio.h>                 printf("It is a vowel");
void main()
{                               else
   char ch;
   clrscr();                        printf("It is not a vowel");
   printf("Enter a char:");     getch();
   scanf("%c",&ch);             }
```