

```
/* WRITE A PROGRAM TO CHECK WHETHER A NUMBER IS ODD OR EVEN*/
```

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int n;
    clrscr();
    printf("\n enter a number:");
    scanf("%d",&n);
    if(n%2==0)
        printf("\n %d is Even",n);
    else
        printf("\n %d is Odd",n);
}
```

```
/* WRITE A PROGRAM TO CHECK WHETHER A NUMBER IS PRIME OR NOT*/
```

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int n,i, flag=0;
    clrscr();
    printf("\n enter a number :");
    scanf("%d",&n);
    for(i=2;i<=n/2;i++)
    {
        if(n%i==0)
        {
            flag=1;
            break;
        }
    }
    if(n==1)
    {
        printf("\n 1 is neither Prime nor Composite.");
    }
    else
    {
        if (flag==0)
            printf("\n %d is a Prime number",n);
        else
            printf("\n %d is not a Prime number",n);
    }
}
```

```
/*WRITE A PROGRAM TO CHECK WHETHER A NUMBER IS PALINDROME OR NOT*/
```

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int n,r=0,d,p;
    clrscr();
    printf("\n enter a number:");
    scanf("%d",&n);
    p=n;
    while(n!=0)
    {
        d=n%10;
        r=r*10+d;
        n=n/10;
    }
    if(p==r)
        printf("\n %d is Palindrome",p);
    else
        printf("\n %d is not Palindrome",p);
}
```

```
/*WRITE A PROGRAM TO CHECK WHETHER A NUMBER IS ARMSTRONG OR NOT*/
```

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int n,r=0,d,a;
    clrscr();
    printf("\n enter a number");
    scanf("%d",&n);
    a=n;
    while(n!=0)
    {
        d=n%10;
        r=r+(d*d*d);
        n=n/10;
    }
    if(r==a)
        printf("\n %d is an Armstrong number",a);
    else
        printf("\n %d is not an Armstrong number",a);
}
```