24/1/25

12) Write a C program to count number of digits using while loop.

```
#include <stdio.h>
 int main()
{
 int n = 300; int i = 0;
 while (n != 0)
{
  n = n/10;
  i++;
}
Printf ("%d", i);
return 0;
}
```

Output

3

3) Write a C program to reverse a number using while loop.

```
#include <stdio.h>
 int main()
{
 int n = 312; int r, rev = 0;
 while (n!=0)
 {
  r = n%10;
  rev = rev*10+r;
  n = n/10;
 }
  Printf("%d", rev);
 return 0;
}
```

Output

213

4) Write a c program to find a number is pallindrome or not.

```
#include <stdio.h>
int main()
{
int n = 121; int rev=0; int s=n; int r;
while(n!=0)
{
 r= n%.10;
 rev = rev*10+r;
 n=n/10;
}
if (rev==s)
{
 Printf("Pallindrome no.");
}
else
{
 Printf("not a Prime no.");
}
return 0;
}
```

output

Pallindrome no.

Write a C program to find a number is armstrong or not.

```
#include <stdio.h>
int main()

int n = 153; int r; int rev = 0;
int s = n;
while (n != 0)
{
 r = n%1.10;
 rev = rev + (r*r*r);
 n = n/10;
}
if (rev == s)
{
 Printf ("Armstrong no.");
}
else
{
 Printf ("not a armstrong no.");
}
 return 0;
```

output

Armstrong no.

Write a C program to find the factorial of a number using for loop.

```
#include <stdio.h>
int main()
{
int i, f=1, n=6;
for(i=1; i<=n; i++)
f=f*i;
{
  Printf("%d", f);
}
return 0;
```

output

720

Write a C program to find fibonacci series using for loop.

```
#include <stdio.h>
int main()
{
int a=0; int b=1; int i; int n=6; int s;
for (i=1; i<=n; i++)
{
  s=a+b;
  a=b;
  b=s;
  Printf("%d", a);
}
return 0;
}
```

Output

0
1
1
2
3
5

Write a C program to find prime no. or not using for loop.

```
#include <stdio.h>
int main()
{
int c=0; int i; int n=7;
for (i=1; i<=n; i++)
{
if (n%i==0)
c=c+1;
}
if(c==2)

Printf("Prime no.");

else
{
Printf("not a Prime no.");
}
return 0;
```

output

Prime no.