1.WAP to print natural numbers from 1 to 100 using for loop

Program

```
#include <stdio.h>
void main()
{
   int no;
   for(no=1;no<=100;no++){
      printf("%5d",no);
   }
}
```

2.Write a program to print multiplication table using for loop

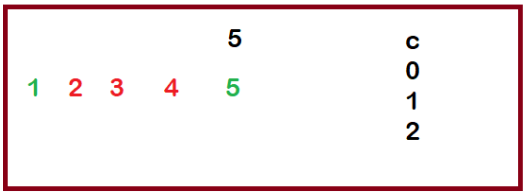
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15…….5 * 10 = 50

Program

```
#include <stdio.h>
void main()
{
  int no,i;
  printf("Enter a Number:");
  scanf("%d",&no);
  for(i=1;i<=10;i++){
   printf("\n%d * %d = %d",no,i,no*i);
  }
}
```

3.WAP to check whether the number is prime number or not

A number which is divisible by 1 and itself is called as a **prime number**



Program

```
#include <stdio.h>
void main()
{
  int no,i,c=0;
  printf("Enter a number:");
  scanf("%d",&no);
  for(i=1;i<=no;i++){
   if(no%i==0)
      c++;
  }
  if(c==2){
   printf("it is a prime number");
```

```
  }else{
  printf("it is not a prime number");
  }
}
```

4.WAP to find the factorial of a given number

1*2*3*4*5 = 120

F = 1 * 2 = 2
F= 2 * 3 = 6
F= 6 * 4 = 24
F= 24 * 5 = 120

Program

```
#include <stdio.h>
void main()
{
 int no,i,f;
 printf("Enter a number:");
 scanf("%d",&no);
 for(i=1,f=1;i<=no;i++){
  f=f*i;
 }
 printf("factorial=%d",f);
}
```

Nested loop