Assignment - 11

1.
```
#include <stdio.h>

int lcm(int, int);
int main()
{ int l, u, k;
  Printf("Enter l and u value:");
  scanf("%d %d", &l, &u);
  k = lcm(l, u);
  Printf("%d", k);
  return 0;
}
int lcm(int l, int u)
{ int i;
  for (i=u; i<=l*u; i++)
  { if (i%u==0 && i%l==0)
    return i;
  }
}
```

2.
```
#include <stdio.h>
int hcf(int, int);
int main(){
int l, u, k;
Printf("Enter l and u value:");
scanf("%d %d", &l, &u);
k = hcf(l, u);
Printf("%d", k);
return 0;
}
int hcf(int l, int u){
int i, h;
h = l<u ? l : u;
for(i=h; i>=1; i--)
if (u%i==0 && l%i==0)
return i;
}
}
```

```
int Prime (int);
int main () {
int n, K;
Printf ("Enter a no:");
Scanf ("%d", &n);
K = Prime (n);
if (K==1)
Printf (" not prime");
else
Printf (" Prime");
  return 0;
}
int Prime (int n){
  int i;
for( i=2; i<n; i++)
{   if (n%i==0)
    return 0;
    else
    return 0;
  }
}
```

```
int Prime (int);
int Main (){
int n, K;
Printf ("Enter a no");
Scanf ("%d", &n);
K = Prime (n);
Printf ("%d", K);
return 0;
}
```

```
int Prime(int n){
int i;
n++;
for(i=2;i<n;i++)
{ if(n%i==0)
  n++;
} if (n==i)
  return 0;
}
```

5.
```
Void Prime (int);
int Main () {
int n;
printf ("Enter a no:");
scanf ("%d", &n);
prime (n);
return 0;
}
Void prime (int n){
int i, j;
for (i=1; i<=n; i++){
for (j=2; j<i; j++)
{ if (i%j==0)
    break;
}
if (i==j)
printf ("%d ", i);
}
}
```

6.
```
Void Prime (int, int);
int Main (){
int n, m;
Printf ("Enter the upper limit and lower limit value:");
Scanf ("%d%d", &n, &m);
prime (n, m);
return 0;
}
Void Prime (int n, int m)
{ int i, j;
for (i=n; i<m; i++){
for (j=2; j<i; j++)
{
```

```
if (i%j==0)
 break;
}
 if (i==j)
 Printf("%d ", i);
}
}

Void fibbo(int);
int main() {
int n;
Printf("Enter any value:");
Scanf("%d", &n);
 fibbo (n);
  return 0;
}
 Void fibbo (int n) {
int temp1=0, temp2=1, sum, i=1;
 Printf("%d %d", temp1, temp2);
 while (i<=n) {
 sum= temp1 + temp2;
 Printf("%d %d", temp1, temp2);
 while (i<=n) {
 sum= temp1 + temp2;
 printf("%d", sum);
  temp1 = temp2;
  temp2 = sum;
  i++;
}
}
```

9.
```
int Square (int);
int main () {
int n;
Printf ("Enter any value");
Scanf ("%d", &n);
Printf ("%d", Square(n));
return 0;
}
int Square (int n){
return n*n;
}
```

10.
```
int fact (int);
int Sum (int);
int Main () {
int n=5;
Printf ("%d", sum(5));
return 0;
}
int fact (int n) {
int i, fact=1;
for (i=1; i<=n; i++)
fact = fact*i;
return fact;
}
int sum (int n) {
int sum=0;
for (int i=1; i<=n; i++)
sum = sum + fact(i)/i;
return sum;
}
```