①
```c
#include <stdio.h>
# include <conio.h>
int lcm (int x, int y);
int main()
{
    int a,b;
    printf("enter of two number");
    scanf("%d %d", &a,&b);

    printf(" lcm = %d", lcm(a,b));
    return 0;
}
    int lcm(int x, int y)
{
    int c,i,m,p;
    if(x>y)
        c=x
```

```c
        else
            c = y;
        for (i = 1; i <= c; i++)
        {
            if (a%i == 0 && b%i == 0)
                m = i;
        }
        p = (x*y)/m;
        return p;
}
```

②
```c
#include<stdio.h>
#include<conio.h>
int HCF (int x, int y);
int main()
{
    int a, b;
    printf("Enter the number");
    scanf("%d %d", &a, &b);
    printf("HCF = %d", HCF(a,b));
    return 0;
}
int HCF (int x, int y)
{
    int c, i, m;
    if (x > y)
        c = x;
```

```c
        else
            i = y;
        for (i=1; i<=c; i++)
        {
            if (x%i==0 && y%i==0)
                m = i;
        }
        return(m);
}
```

③
```c
#include <stdio.h>
#include <conio.h>
int prime (int n);
int main()
{
    int n;
    printf("Enter a number");
    scanf("%d", &n);
    printf("%d\n", prime(n));
    if(prime==1)
            printf("prime number");
    else    printf("Not prime number");
    return 0;
}
int prime (int n)
{
```

```c
        int i;
        for (i=2; i<=n-1; i++)
            If (n%i ==0)
                break;
    If (n== i)
            return 1;
        else
            return 0;
}
```

(4)
```c
# include <stdio.h>
# include <conio.h>
int prime (int x);
int main ()
{
    int n;
    printf ("Enter a number");
    scanf ("%d", &n);
    printf ("Next prime = %d", prime(n));
    return 0;
}

int prime (int x)
{
    Int i, j
    for (i=x+1; i<=(x+20); i++)
    {
        for (j=2; j<i; j++)
        {   If (i%j ==0)
                break;
    }
```

```c
    #if (J==i)
2           return(l);
            break;
        }
    }
 }
}


⑤  #include < stdio.h>
    #include < conio.h>
    void prime (int x);
    int main()
    {
        int n;
        printf ("Enter a number");
        scanf("%d", &n)
        prime (n);
        return 0;
    }

    void prime (int x)
    {   int i, j
        for (i=1; i<=x; i++)
        {   for (j=2; j<i; j++)
            {
```

```c
        if (i%j == 0)
            break;
        }
    }
        if (j2 == i)
            printf("%d", i);
    }
}
```

(6)
```c
#include <stdio.h>
#include <conio.h>
void prime (int x, int y);
int main()
{
    int a, b;
    printf("enter a number a and b");
    scanf("%d %d", &a, &b);
    prime(a, b);
    return 0;
}
void prime(int x, int y)
{
    int i, j
    for (i=a; i<=b; i++)
    {
        for (j=2; j<=b; j++)
        {
            if (i%j == 0)
                break;
        }
        if (j==i)
            printf("%d", i);
    }
}
```

```c
⑦ #include <stdio.h>
  #include <conio.h>
  void fabona (int m);
  int main ()
  {
      int n;
      printf ("Enter a number");
      scanf ("%d", &n);
      fabona (n);
      return 0;
  }
  void fabona (int m),
  {
      int i, sum=0, x=0, y=1, temp;
      If (m==0)
          printf ("0");
      If (m==1)
          printf ("1");
      for (i=2; i<=n; i++)
      {
          sum = x+y;
          temp = x;
          x = y;
          y = sum;
      }
      printf ("%d", sum);
  }
```

⑧
```c
#include <stdio.h>
#include <conio.h>
void

void pascaltri (int n);
int fact (int m);
int main()
{
    int a, n;
    printf ("enter a number");
    scanf ("%d", &n);
    pascaltri (int n);
    return 0;
}

void pascaltri (int n)
{
    int i, j, m
    for (i=0; i<=n; i++)
    {
        for (j=0; j<=i; j++)
            m= fact (i)/(fact(j)* fact (i-j))
            printf ("%d", m);
    }
}

int fact (int m)
{
    int P=1, r
    for (int i=1; i<=m; i++)
        p= p* i;
    return p;
}
```

```c
9 #include <stdio.h>
  #include <conio.h>
  void square (int m);
  int main()
  {
      int n;
      printf("enter a number");
      scanf("%d", &n);
      square(n);
      return 0;
  }
  void square (int m)
  {
      int P;
      P = m * m;
      printf("squear = %d", P);
  }


10 #include <stdio.h>
   #include <conio.h>
   int fact (int m);
   int main()
   {
       int n=5, P, sum=0;
       for(int i=1; i<=5; i++)
           P = fact(i)/i
```

```c
        sum = sum+p
    }
    printf("%d", sum);
}

int fact (int m).
{
    int temp=1;
    for(int j=1 ; j<=m; j++)
        temp= temp*j;
    return (temp);
}
```