

Answer to the question number-1:

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int n,count=0;
6      printf("Enter a number:");
7      scanf("%d",&n);
8      while(n!=0)
9      {
10         n=n/10;
11         count++;
12     }
13     printf("\n the number of digits in an integer is:%d",count);
14     return 0;
15 }
```

Output

```
/tmp/RDA3MtaIZj.o
Enter a number:35
the number of digits in an integer is:2|
```

Answer to the question number-2:

```
1  #include<stdio.h>
2  int main( )
3  {
4      int n, i, arr[50], inc=0, j, count, m;
5
6      printf("enter the number");
7      scanf("%d",&n);
8
9      m=n;
10
11     while(m>0)
12     {
13         i=m%10;
14         m=m/10;
15         arr[inc]=i;
16         inc++;
17     }
18
19     for(i=0; i<=9 ; i++)
20     {
21         count=0;
22         for(j=0; j<inc ; j++)
23         {
24             if(arr[j] == i)
25
26                 count++;
27         }
28         printf("frequency of %d is %d",n,count);
29     }
30     return 0;
31 }
```

Output

Clear

/tmp/RDA3MtaIZj.o

enter the number32

frequency of 32 is 0frequency of 32 is 0frequency of 32 is 1frequency of 32
is 1frequency of 32 is 0frequency of 32 is 0frequency of 32 is
0frequency of 32 is 0frequency of 32 is 0frequency of 32 is 0

Answer to the question number-3:

```
1  #include<stdio.h>
2  int main()
3  {
4      int num,i;
5      printf("Enter a positive integer:",num);
6      scanf("%d",&num);
7      printf("Factors of %d are:",num);
8      for (i=1;i<=num;++i){
9          if (num%i==0)
10             printf("%d",i);
11     }
12     return 0;
13 }
```

Output

```
/tmp/RDA3MtaIZj.o
```

```
Enter a positive integer:20
```

```
Factors of 20 are:12451020
```


Answer to the question number-4:

```

1
2  #include <stdio.h>
3  int main() {
4      int n1=0, n2=1,n3,count,num;
5      printf("Enter the number of terms to be printed\n");
6      scanf("%d",&num);
7      printf("\n%d\n%d\n",n1,n2);
8      for(count=1; count<=num; count++)
9      {
10         n3=n1+n2;
11         printf("%d\n",n3);
12         n1=n2;
13         n2=n3;
14
15     }
16
17     return 0;
18 }

```

Output

```

/tmp/mYkR06Wy4F.o
Enter the number of terms to be printed
10
0
1
1
2
3
5
8
13
21
34
55
89

```

Answer to the question number-5:

```
1  #include<stdio.h>
2  void main()
3  {
4      int i,f ,num;
5      printf("Input the number:");
6      scanf("%d",&num);
7      for (i=1;i<=num;i++)
8          f=f*i;
9      printf("the factorial of %d is :%d\n",num,f);
10
11 }
```

Output

```
/tmp/oD0GpPTXQx.o
Input the number:10
the factorial of 10 is :32764
|
```


Answer to the question number-6:

```
main.c
1  #include<stdio.h>
2  int main()
3  {
4      int a,b,i,gcd,lcm;
5      printf("Enter two integer number:");
6      scanf("%d%d",&a,&b);
7      for (i=1;i<=a&&i<=b;i++)
8      {
9          if(a%i==0 && b%i==0)
10             gcd=i;
11     }
12     {
13         lcm=(a*b)/gcd;
14         printf("LCM is %d",lcm);
15     }
16
17     return 0;
18 }
```

Output

```
/tmp/oD0GpPTXQx.o
Enter two integer number:10
15
LCM is 150
```

