**Question-1**

```c
int main()
{
    int a=-1,b=1,c=0,n;
    printf("Enter a number : ");
    scanf("%d",&n);
    while(n--)
    {
        c=a+b;
        a=b;
        b=c;
    }
    printf("The %d term of a fibanacci series is %d",n,c);
}
```

**Question-2**

```c
//in this program i have considered from 0 1 1 2 3 5
int main()
{
    int n,a=-1,b=1,c,i=1;
    printf("Enter a number : ");
    scanf("%d",&n);
    while(i<=n)
    {
        c=a+b;
        printf("%d ",c);
        a=b;
        b=c;
        i++;
    }
}
```

**Question-3**

```c
int main()
{
    int n,a=-1,b=1,c;
    printf("Enter the number :");
    scanf("%d",&n);
    while(c<n)
    {
        c=a+b;
        a=b;
        b=c;
    }
    if(c==n)
    printf("Enterd number is a term of fibonacci");
    else
    printf("Entered number is not term of fibonacci");
}
```

**Question-4**

```c
//Program to calculate the hcf of two numbers.
int main()
{
    int a,b,i;
    printf("Enter the two numbers :");
    scanf("%d %d",&a,&b);
    for(i=a>b?a:b;i>=1;i--)
    if(a%i==0 && b%i==0)
    break;
    printf("HCF OF %d and %d is %d",a,b,i);
}
```

**Question-5**

```c
//Program to check a whether number is co-prime or not
int main()
{
    int a,b,i;
    printf("Enter two number : ");
    scanf("%d %d",&a,&b);
    for(i=a>b?a:b;i>1;i--)
    if(i%a==0 && i%b==0)
    break;
    if(i==1)
    printf("Entered number is Co-Prime");
    else
    printf("Entered number is not Co-Prime");

}
```

**Question-6**

```c
//Program to print all prime in a given range
int main()
{
    int n,i,j;
    for(i=2;i<=100;i++)
    {
        for(j=2;j<=i/2;j++)
        if(i%j==0)
        break;
        if(j==i/2+1)
        printf("%d ",i);
    }

}
```

**Question-7**

```c
//Program to print all prime in a given range
int main()
{
    int n1,n2,i,j;
    printf("Enter two number : ");
    scanf("%d %d",&n1,&n2);
    for(i=n1;i<=n2;i++)
    {
        for(j=2;j<=i/2;j++)
        if(i%j==0)
        break;
        if(j==i/2+1)
        printf("%d ",i);
    }


}
```

**Question-8**

```c
//Program to print prime number after a given number
int main()
{
    int n,i,j;
    printf("Enter a number : ");
    scanf("%d",&n);
    for(i=n+1;;i++)
    {
        for(j=2;j<=i/2;j++)
        if(i%2==0)
        break;
        if(j==i/2+1)
        {
         printf(" Next Prime is : %d",i);
        break;
        }

    }
}
```

Question-9

```c
//Program to check whether a given number is armstrong or not it is work on
any number
int main()
{
    int n,num,count=0,t,s=1,sum=0,cc;
    printf("Enter a number : ");
    scanf("%d",&num);
    n=num;
    t=n;
    while(t!=0)
    {
        t=t/10;
        count++;
    }
    printf("count is %d \n",count);
    while(n!=0)
    {
        cc=count;
        while(cc)
        {
            s=s*n%10;
            cc--;
            printf("Value of s is %d\n",s);
        }
        sum=sum+s;
        printf(" First Sum is %d\n",sum);
        s=1;
        n=n/10;
    }
    printf("Value of num ans sum is %d %d ",num,sum);
    if(num==sum)
    printf("No is Armstrong ");
    else
    printf("No is not Armstrong");
}
```

Question-10

```c
//Program to check whether a given number range  is armstrong or not it is
work on any number
int main()
{
    int n,num,count=0,t,s=1,sum=0,cc;
    for(num=1;num<=1000;num++)
    {
    n=num;
    t=n;
    count=0;
    sum=0;
    while(t!=0)
    {
        t=t/10;
        count++;
    }
    //printf("count is %d \n",count);
    while(n!=0)
    {
        cc=count;
        while(cc)
        {
            s=s*(n%10);
            cc--;
           // printf("Value of s is %d\n",s);
        }
        sum=sum+s;
        //printf(" First Sum is %d\n",sum);
        s=1;
        n=n/10;
    }
    //printf("Value of num ans sum is %d %d\n ",num,sum);
    if(num==sum)
    printf(" %d",num  );
    }


}
```