Q1:-

```
#include <stdio.h>
int main()
{
	int i,n,a=0,b=1,c;
	printf("Enter a number\n");
	scanf("%d",&n);
	printf("The series is:-\n%d\n%d",a,b);
	for(i=2;i<n;i++)
	{
		c=a+b;
		a=b;
		b=c;
		printf("\n%d",c);
	}
	return 0;
}
```

Q2:-

```
#include <stdio.h>
int main()
```

```
{
        int i,a=0,b=1,c;
        printf("The Fibonacci series is:- \n%d\n%d",a,b);
        for(i=2;i<10;i++)
        {
                c=a+b;
                printf("\n%d",c);
                a=b;
                b=c;
        }
        return 0;
}
```

Q3:-

```
#include<stdio.h>
int main()
{
  int num,a=0,b=1,c;
  printf("Enter a number:\n");
  scanf("%d",&num);
  if(a==0||b==1)
  printf("Number is in the fibonacci series");
```

```
  else
  {
  c=a+b;
  while(c<num)
{
        a=b;
        b=c;
        c=a+b;
  }
    if(c==num)
    printf("Number is in the fibonacci series");
    else
    printf("Number is not in the fibonacci series");
  }
        return 0;
}
```

Q4:-

```
#include<stdio.h>
int main(){
         int num1,num2,H,min;
         printf("Enter the two numbers:\n");
```

```
        scanf("%d %d",&num1,&num2);
        min=(num1<num2?num1:num2);
        for(H=m;H!=0;H--)
        {
                if(num1%H==0&&num2%H==0)
                break;
        }
        printf("HCF is %d",H);
        return 0;
}
```

Q5:-

```
#include<stdio.h>
int main(){
        int num1,num2,i,min;
        printf("Enter the two numbers:\n");
        scanf("%d %d",&num1,&num2);
        min=(num1<num2?num1:num2);
        for(i=min;i!=1;i--)
        {
                if((num1%i==0) && (num2%i==0))
                break;
```

```
        }
        if(i==1)
        printf("co-prime");
        else
        printf("Not a co-prime");
        return 0;
}
```

Q6:-

```
#include<stdio.h>
#include<math.h>
int main()
{
  int n,i,m;
  for(n=1;n<=100;n++)
  {
         m=sqrt(n);
         for(i=2;i<=m;i++)
         {
                if(n%i==0)
                break;
         }
```

```
        if(i>m)
        printf("%d\n",n);
  }
    return 0;
}
```

Q7:-

```
#include <stdio.h>
int main()
{
    int i,n,num1,num2;
    printf("Enter 2 number:\n");
    scanf("%d %d",&num1,&num2);
    for(n=num1+1;n<=num2-1;n++)
    {
        for(i=2;i<=n/2;i++)
        {
            if(n%i==0)
            break;
        }
          if(i>n/2)
    printf("%d\t",n);
```

```
        }
        return 0;
}
```

Q8:-

```
#include <stdio.h>
int main()
{
        int i,num,n;
        printf("Enter a number:\n");
        scanf("%d",&num);
                for(i=num+1;;i++)
                {
                 for(n=2;n<=i/2;n++)
                 {
                                if(i%n==0)
                          break;
                        }
                  if(n>i/2)
                  break;
        }
                printf("%d\t",i);
```

```
        return 0;
}
```

Q9:-

```
#include<stdio.h>
#include<math.h>
int main(){
        int num,power=0,result=0,onum,rem;
        printf("Enter a number:\n");
        scanf("%d",&num);
        onum=num;
        for(onum!=0)
        {
                onum=onum/10;
                power++;
        }
        onum=num;
        while(onum!=0)
        {
                rem=onum%10;
                result=result+pow(rem,power);
                onum=onum/10;
```

```
        }
        if(result==num)
        printf("Number is armstrong");
        else
        printf("Number is not a armstrong");
        return 0;
}
```

Q10:-

```
#include<stdio.h>
int main(){
        int i,rem,num,result;
        printf("Armstrong number under 1000 is:-\n");
        for(num=1;num<=1000;num++)
        {
                result=0;
                i=num;
        while(i!=0)
        {
                rem=i%10;
                result=result+(rem*rem*rem);
                i=i/10;
```

```
        }
        if(result==num)
        printf("%d\t",num);
        }
        return 0;
}
```