Assignment No.4

Q1.Print Armstrong number in the the given range 1 to n?

Code:-

```
//Print armstrong number in the the given range 1 to n?
#include<stdio.h>
int main(){
	int rem,r1,num1,num2;
	int digit,t,count;
	int sum=0,num;

	printf("Enter two numbers :");
	scanf("%d%d",&num1,&num2);

	num=num1;
	for(;num<=num2;num++){  //sequencely flow number

		//printf("%d",num);
		num1=num;
		digit=1;

		for(;num1>9;num1=num1/10){   //use for finding how many digit in number
			digit++;
			//printf("no of digit : %d \n",digit);
		}

			num1=num;
			count=digit;

			for(;digit>0;digit--){
				t=count;
				rem=num1%10;		//finding reminder
				//	printf("reminder is %d \n",rem);


				r1=rem;
```

```
        for(;t>1;t--){//to calculate power of n(digit number) reminder
                                rem=r1*rem;
                                //      printf("reminder is %d \n",rem);
                                }
                        sum=sum+rem;
                        num1=num1/10;
                }
        if(sum == num){

                printf(" %d is the armstrong number which \n",num);

                printf("sum is %d \n",sum);

                //num1=num;
        }
        sum=0;
    }
}
```

Q2.Print prime number in the given range 1 to n?

Code:-

```
#include<stdio.h>
void main(){
	int n1,n2;
	printf("Enter two numbers :");
	scanf("%d%d",&n1,&n2);
	for(;n1<=n2;n1++){
		//printf("%d",n1);
		if(n1<=7){

		if(n1==2||n1==3||n1==5||n1==7){
			printf("%d \n",n1);
		}

		}
		else{
		if(n1%2==0||n1%3==0||n1%5==0||n1%7==0){
			//printf("%d",n1);
		}
		else{
			printf("%d \n",n1);

		}

		}
	}
}
```

Q3.check perfect number in the given range 1 to n?

Code:-

```
#include<stdio.h>
void main(){
	int num1,num2,count,sum;

	printf("Enter two numbers :");
	scanf("%d%d",&num1,&num2);

	for(;num1<=num2;num1++){
		sum=0;
		//printf("number is %d \n",num1);
		//printf(" sum is %d \n",sum);
		count=1;
		for(;num1>count;count++){
			if(num1%count==0){

				//printf("count is %d \n",count);
				sum=sum+count;
				//printf("sum is %d \n",sum);
			}
			//printf("sum is %d \n",sum);
		}
		if(sum==num1){

					printf("perfect num is %d ",num1);
					printf("their sum is %d \n",sum);
	}
	}
}
```

Q4.check strong number in the given range 1 to n?

Code:-

```
//check strong number in the given range 1 to n
#include<stdio.h>
void main(){
	int num1,num2,no,rem,r1,b=0,fact,str=0;

	printf("Enter two number :");
	scanf("%d%d",&num1,&num2);

	for(;num1<=num2;num1++){

	no=num1;

		for(;num1!=0;num1=num1/10){

			fact=1;
			rem=num1%10;
			r1=rem;

			for(;r1!=b;r1--){
				fact=fact*r1;

			}
			str=str+fact;
		}
		if(str==no){
		printf("Strong of %d numbr is : %d \n",no,str);
		}
		num1=no;
		b=0;
		str=0;
	}
}
```

Q5.Print fibonacci series?(optional)

Code:-

```
//Print fibonacci series?(optional)

#include<stdio.h>
void main(){
	int num,prv=0,post=1,count,temp;
	printf("How many number you want to print :");
	scanf("%d",&num);
	//printf(" 0 \n");
	for(count=1;count<=num;count++)
	{
		temp=prv;
		prv=post;
		post=temp;
		printf(" %d \n",post);
		post=prv+post;


	}
}
```