

Assignment No.5

1. //Check the number is armstrong or not

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int i,no,num,sum,rem;
```

```
    printf("Enter number which you want=");
```

```
    scanf("%d",&num);
```

```
    while(i>0)
```

```
    {
```

```
        rem=num%10;
```

```
        sum=sum+(rem*rem*rem);
```

```
        num=num/10;
```

```
        printf("The sum of the number is=%d\n",sum);
```

```
        break;
```

```
    }
```

```
    i++;
```

```
    if(num==sum)
```

```
    {
```

```
        printf("The number is armstrong number");
```

```
    }
```

```
    else
```

```
{  
    printf("The number is not armstrong number");  
}  
}
```

2. //Check number is prime or not

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int i=2,num=10,n,flag=0;
```

```
    printf("Enter number which you want=");
```

```
    scanf("%d",&n);
```

```
    while(i<num)
```

```
    {
```

```
        if(n%i==0)
```

```
        {  
            flag=1;
```

```
            printf("The number is not prime\n");
```

```
            break;
```

```
        }
```

```
        i++;
```

```
    }  
    if(flag==0)
```

```
    {
```

```
        printf("The number is prime");
```

```
    }
```

```

}

/* else
{
    printf("The numbebr is not prime");
}
}*/

```

3. //Check number is perfect or not

```

#include<stdio.h>

int main()
{
    int i=1,sum=0,num;
    printf("Enter number which you want= ");
    scanf("%d",&num);
    while(i<num)
    {
        if(num%i==0)
            sum+=i;
    }
    i++;
    if(sum==num)
    {
        printf("The %d is perfect number\n",num);
    }
    else
    {
        printf("The %d is not perfect number\n",num);
    }
}

```

```
return 0;

}
```

4. //program to check number is strong or not

```
#include<stdio.h>

void isstrong();

int main()
{
    isstrong();
}

void isstrong()
{

    int n, temp,rem,sum=0,i,fact;

    printf("Enter number which you want=");
    scanf("%d",&n);
    temp=n;

    while(n>0)
    {
        i=1;
        fact=1;
        rem=n%10;
        while(i<=rem)
        {
            fact=fact*i;
            i++;
        }
    }
}
```

```

        sum=sum+fact;

        n=n/10;
    }
    if(sum==temp)
    {
        printf("The %d is a strong number",temp);
    }
    else
    {
        printf("The %d is a not strong number",temp);
    }
}

```

5. //program to print number of series

```

#include<stdio.h>

int main()
{
    int i=1,n,num,temp=0,sum=0,count=0;
    printf("Enetr number which you want= ");
    scanf("%d",&num);

    while(i<=num)
    {
        temp=temp*10+3;
        printf("The series of number is= %d\n",temp);
        count++;
        printf("%d",count);
        if(i<num)

```

```
{  
    printf("\n");  
  
    }  
    i++;  
  
}  
  
}
```