

Assignment 3

//1. Print numbes from 1 to 10.

```
#include<stdio.h>

void main (){
    int i=1;
    while(i<=10)
    {
        printf("%d\n",i);
        i++;
    }
}
```

//2. Print table for the given number.

```
#include<stdio.h>

void main(){
    int num,i=1;
    int mult;

    printf("Enter Number:");
    scanf("%d",&num);

    while (i<11)
    {
        mult=i*num;
        printf("%d * %d = %d\n",num,i,mult);
        i++;
    }
}
```

//3. Calculate sum of numbers in the given range.

```
#include<stdio.h>

void main(){
```

```
int start,end,sum=0;
```

```
printf("Enter start:");
```

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

```
printf("Enter End:");
```

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

```
while (start<=end)
```

```
{
```

```
    sum=sum+start;
```

```
    start++;
```

```
}
```

```
printf("sum is %d",sum);
```

```
}
```

// 4. Check number is prime or not

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

```
void main(){
```

```
    int count=0,i=2,num;
```

```
    printf("Enter Value :");
```

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

```
    while(i<=num){
```

```
        if(num%i==0){
```

```
            count++;
```

```
        }
```

```

        i++;
    }

    if(count==1)
        printf("%d is Prime !",num);
    else
        printf("%d is not Prime !",num);
}

//5. Check number is armstrong or not?

#include<stdio.h>

void main(){

    int num,sum=0,rem,temp;

    printf("Enter Number :");

    scanf("%d",&num);

    temp=num;

    while(temp>0){
        rem=temp%10;
        temp=temp/10;
        sum=sum+(rem*rem*rem);
    }

    if(sum==num)
        printf("%d is armstrong !",num);
    else
        printf("%d is not armstrong !",num);
}

```

//6. Check number is perfect or not.

```

#include<stdio.h>

void main(){

```

```
int sum=0,i=1,num;
```

```
printf("Enter Value :");
```

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

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

```
    if(num%i==0){
```

```
        sum=sum+i;
```

```
    }
```

```
    i++;
```

```
}
```

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

```
printf("%d is strong !",num);
```

```
else
```

```
printf("%d is not strong !",num);
```

```
}
```

//7. Find factorial of number

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

```
void main(){
```

```
    int num,i;
```

```
printf("Enter Number :");
```

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

```
for(i=1;i<=num;i++)
```

```
{
```

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

```
        printf("%d\n",i);
```

```
}
```

```

    // printf("%d",fact);

}

// Check the given number is palindrome or not
#include<stdio.h>

void main(){
    int n,rem,org,rev=0;


    printf("Enter Number :");
    scanf("%d",&n);
    org=n;

    while(n>0){
        rem=n%10;
        rev=(rev*10)+rem;
        n=n/10;
    }
    if(org==rev)
        printf("%d is Palindrome !",org);
    else
        printf("%d not Palindrome",org);
}

//10.Add the (first and last) digit of a given number
#include<stdio.h>

void main(){
    int num,rem,sum=0;
    printf("Enter Number :");
    scanf("%d",&num);

```

```
while (num!=0)
{
    rem=rem%10;
    num=num/10;

}
sum=num+rem;
printf("Sum of last and first digit will be :%d",sum);
}
```