

Assignment no.3

1.//Print the natural number

```
#include<stdio.h>

int main()
{
    int i,n;
    printf("The first 20 natural number is=");
    for(i=1;i<=20;i++)
    {
        printf("%d",i);
    }
    printf("\n");
}
```

2. //Display the multiple table

```
#include<stdio.h>

int main()
{
    int i,n,num,mul;
    printf("Enter the number which table you want=");
    scanf("%d",&num);
    for(i=1;i<=10;i++)
    {
```

```
        printf("%d*%d=%d\n",num,i,num*i);
    }
}
```

3. //program for find sum of first 10 natural numbers

```
#include<stdio.h>

int main()
{
    int i,n,sum;
    printf("The first 10 natural number is=");
    for(i=1;i<=10;i++)
    {
        sum=sum+i;
        printf("%d",i);
    }
    printf("\nThe sum of the naturalnumber is= %d",sum);

}
```

4. //to check number is prime or not using while loop

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

```
int main()
```

```
{
```

```
int no=10;int i=2,flag=0;
```

```
while(i<no)
```

```
{
```

```
    if(no%i==0)
```

```
        flag=1;
```

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

```
        break;
```

```
}
```

```
    i++;
```

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

```
{
```

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

```
}
```

```
}
```

5. //To check number is Armstrong or not

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

```
int main()
```

```
{
```

```
    int n,rem,temp,sum=0;
```

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

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

```
    temp=n;
```

```
    while(n>0)
```

```
    {
```

```
        rem=n%10;
```

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

```
        n=n/10;
```

```
    }
```

```
    if(temp==sum)
```

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

```
    else
```

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

```
}
```

6. //program to check number is perfect or not

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

```
int main()
```

```
{
```

```
    int i,n,sum=0;
```

```
    printf("Entr number=");
```

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

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

```
    {
```

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

```
        {
```

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

```
        }
```

```
        if(sum==n)
```

```
        {
```

```
            printf("The number %d is perfect number\n");
```

```
        }
```

```
    else
```

```
    {
```

```
        printf("The number %d is not perfect number\n");
```

```
    }
```

```
}
```

```
}
```

7. //To print factorial of number

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

```
int main()
```

```
{
```

```
    int num,i,fact=1;
```

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

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

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

```
    {
```

```
        fact=fact*i;
```

```
    }
```

```
    printf("The factorial of %d is %d= ",i,fact);
```

```
}
```

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

```
#include<stdio.h>

int main()
{
    int n, temp,rem,sum=0,i,fact;

    n=145;
    temp=n;

    while(n)
    {
        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");
    }
    else
    {
        printf("The %d is a not strong number");
    }
}
```

```
}
```

9. //Check number is palindrome or not

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

```
int main()
```

```
{
```

```
    int num,reverseno=0,remainder,originalno;
```

```
    printf("Enter an integer:");
```

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

```
    originalno=num;
```

```
    while(num!=0)
```

```
    {
```

```
        remainder=num%10;
```

```
        reverseno=reverseno*10+remainder;
```

```
        num/=10;
```

```
    }
```

```
    if(originalno == reverseno)
```

```
    {
```

```
        printf("%d is a palindrome\n",originalno);
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("%d is not a palindrome\n",originalno);
```

```
        return 0;
```

```
    }
```

```
}
```


10. //Add the(first and last)digit of a given number

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

```
int main()
```

```
    int num,sum,firstdigit,lastdigit;
```

```
    printf("Enter an integer:");
```

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

```
    lastdigit=num%10;
```

```
    firstdigit=num;
```

```
    while(firstdigit>=10)
```

```
    {
```

```
        firstdigit/=10;
```

```
    }
```

```
    sum=firstdigit+lastdigit;
```

```
    printf("Sum of the first and last digit is=%d",sum);
```

```
    return 0;
```

```
}
```