```
Program1:-
#include<stdio.h>
main()
int x, sum, temp;
sum = 0;
printf("Enter the Number\n");
scanf("%d",&x);
temp = x; //temporarily stores the given number
while(temp!=0)
 sum = sum + (temp\%10);
 temp = temp/10;
printf("The sum of digits of %d is %d",x,sum);
Program2:-
#include<stdio.h>
main()
int x, rev, temp;
rev = 0;
printf("Enter the Number\n");
scanf("%d",&x);
temp = x; //temporarily stores the given number
while(temp!=0)
 rev = rev + (temp\%10);
 rev = rev*10;
 temp = temp/10;
rev = rev/10;
printf("The sum of digits of %d is %d",x,rev);
Program3:-
#include<stdio.h>
main()
```

```
int x, rev, temp;
rev = 0;
printf("Enter the Number\n");
scanf("%d",&x);
temp = x; //temporarily stores the given number
while(temp!=0)
 rev = rev + (temp\%10);
 rev = rev*10;
 temp = temp/10;
rev = rev/10;
if(rev==x)
 printf("It is a Palindrome number");
else
 printf("It is not a Palindrome number");
Program4:-
#include<stdio.h>
main()
int f1 = 0;
int f2 = 1;
int f3,res;
int n,x;
printf("Enter the nth term of the fibonacci\n");
scanf("%d",&n);
x=2;
if(n \ge 0)
printf("%d,",f1);
if(n>=1)
printf("%d,",f2);
//doing all the main work here
while(x<n)
{
 f3 = f2;
 res = f2 + f1;
 f2 = res;
```

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f1 = f3;
 if(x < (n-1))
 printf("%d,",res);
 else
 printf("%d....",res);
 x++;
Program5:-
#include<stdio.h>
main()
int n, x, count=0;
printf("Enter the Number\n");
scanf("%d",&n);
x=1;
while(x \le n)
 if((n\%x)==0)
 count++;
 X++;
if(count==2)
 printf("It is a Prime number");
else
 printf("It is not a Prime number");
}
Program6:-
#include<stdio.h>
main()
```

```
int x, sum, temp,c;
sum = 0;
printf("Enter the Number\n");
scanf("%d",&x);
temp = x;
while(temp!=0)
 c = temp\%10;
 sum = sum + (c*c*c); //sum + cube of the extracted digit
 temp = 10;
if(sum == x)
 printf("%d is an Armstrong Number",x);
else
 printf("%d is not an Armstrong Number",x);
Program7:-
#include<stdio.h>
main()
int num,x,fact=1;
printf("Enter the number\n");
scanf("%d",&num);
for(x=num;x>=1;x--)
 fact = fact * x;
printf("The factorial of %d is %d",num,fact);
Program8:-
#include<stdio.h>
main()
int num,temp,rem=0,x;
printf("Enter the Number\n");
```

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

for(x=0;temp>0;temp/=2)
{
   if((temp%2)==0)
   {
      rem = rem + 0;
   }
   else
   {
      rem = rem + 1;
   }

   rem = rem/10;
   printf("The Binary Code for %d is %d",num,rem);
}
```