ASSIGNMENT-5

[25-11-2025]

1)Program to find a strong number?

```c
#include <stdio.h>
   int main()
 {
        int num, temp, rem;
        int sum = 0, fact;

        printf("Enter a number: ");
        scanf("%d", &num);
        temp = num;
        while (temp > 0)
         {
                rem = temp % 10;   // extract digit
                // Calculate factorial of rem
                fact = 1;
                for (int i = 1; i <= rem; i++) {
                fact *= i;
        }
        sum += fact;      // add factorial to sum
        temp /= 10;       // remove last digit
  }
 if (sum == num)
 printf("%d is a Strong Number.\n", num);
 else
 printf("%d is NOT a Strong Number.\n", num);
  return 0;
}
```

2)Program to find a perfect number?

```c
#include <stdio.h>
int main()
{
  int num, sum = 0;
  printf("Enter a number: ");
  scanf("%d", &num);
  for (int i = 1; i <= num / 2; i++)
      {
              if (num % i == 0)
                  {
                          sum += i;   // add divisor
                  }
      }
if (sum == num)
printf("%d is a Perfect Number.\n", num);
else
printf("%d is NOT a Perfect Number.\n", num);
return 0;
}
```