LAB-3-EXTRA PROGRAMS

PROGRAM-1-CONVERSION OF TIME USING FUNCTIONS

```c
//                          CONVERSION OF TIME USING FINCTIONS
#include<stdio.h>
int convert(int,int);
int main()
{
    int h;
    int m;
    printf("Enter the time (hours:minutes) = ");
    scanf("%d:%d",&h,&m);
    convert(h,m);
}
int convert(int h,int m)
{
    int n;
    if(m>60)
    {
        h=h+1;
        n=m-60;
        printf("Time = %d hours:%d minutes",h,n);
    }
    else
    {
        printf("Time = %d hours: %d minutes",h,m);
    }
    return 0;
}
```

OUTPUT:

```
Enter the time (hours:minutes) = 2:80
Time = 3 hours:20 minutes
Process returned 0 (0x0)   execution time : 5.779 s
Press any key to continue.
```

```
Enter the time (hours:minutes) = 5:70
Time = 6 hours:10 minutes
Process returned 0 (0x0)   execution time : 6.333 s
Press any key to continue.
```

```
Enter the time (hours:minutes) = 2:20
Time = 2 hours: 20 minutes
Process returned 0 (0x0)   execution time : 5.775 s
Press any key to continue.
```

PROGRAM-2-SUM OF NATURAL NUMBERS FROM 1 TO N

```c
//                          SUM OF NATURAL NUMBERS USING FUNCTIONS
#include<stdio.h>
 int Sum_of_natural_numbers(int);
 int main()
{
   int n;
   printf("Enter the number = ");
   scanf("%d",&n);
   Sum_of_natural_numbers(n);

   }
 int Sum_of_natural_numbers(int n)
 {
  int i;
  int s=0;
   for(i=1;i<=n;i++)
    {
      s=s+i;
    }
   printf("sum of natural numbers=%d",s);
 }
```

OUTPUT:

```
Enter the number = 20
sum of natural numbers=210
Process returned 0 (0x0)    execution time : 9.014 s
Press any key to continue.
```

```
Enter the number = 5
sum of natural numbers=15
Process returned 0 (0x0)    execution time : 2.301 s
Press any key to continue.
```

```
Enter the number = 55
sum of natural numbers=1540
Process returned 0 (0x0)    execution time : 6.313 s
Press any key to continue.
```

PROGRAM-3-SQUARE OF ANY NUMBER

```c
//                        SQUARE OF A NUMBER USING FUNCTIONS
#include<stdio.h>
#include<math.h>
 int Square_of_number(int);
 int main()
{
    int n;
    printf("Enter a number = ");
    scanf("%d",&n);
    Square_of_number(n);

}
int Square_of_number(int n)
{
    int square;
    square=n*n;
    printf("Square of a number =%d",square);
    return 0;

}
```

OUTPUT:

```
Enter a number = 5
Square of a number =25
Process returned 0 (0x0)    execution time : 9.379 s
Press any key to continue.
```

```
Enter a number = 8
Square of a number =64
Process returned 0 (0x0)    execution time : 2.820 s
Press any key to continue.
```

```
Enter a number = 20
Square of a number =400
Process returned 0 (0x0)    execution time : 3.811 s
Press any key to continue.
```