

Day - 2:

5) Greatest of two numbers

#include <stdio.h>

int main() {

int num1, num2;

printf ("Enter the first number : ");

scanf ("%d", &num1);

printf ("Enter the second number : ");

scanf ("%d", &num2);

if (num1 > num2) {

printf ("%d is the maximum number.\n", num1);

} else if (num2 > num1)

printf ("%d is the maximum number.\n", num2);

else

{

printf ("Both numbers are equal.\n");

return 0;

6) leap year or not

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

```
int main()
```

```
{
```

```
int year;
```

```
printf("Enter a year: ");
```

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

```
if ((year % 400 == 0) || ((year % 4 == 0) && (year % 100 != 0)))
```

```
{
```

```
printf("%d is a leap year.\n", year);
```

```
g
```

```
else
```

```
{
```

```
printf("%d is not a leap year.\n", year);
```

```
y
```

```
return 0;
```

```
}
```

7) prime number within a given range

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

```
int main()
```

```
{
```

```
int low, high, i, flag, temp;
```

```
printf("Enter two numbers (intervals): ");
```

```
scanf("%d %d", &low, &high);
```

```
if (low > high)
```

```
{
```

```
temp = low;
```

```
low = high;
```

```
high = temp;
```

```
3
printf("prime numbers between %d and %d are: "%low, high);
while (low <= high)
{
    flag = 0;
    if (low == 1)
    {
        ++low;
        continue;
    }
    for (i=2; i<=low/2; ++i)
    {
        if (low % i == 0)
        {
            flag = 1;
            break;
        }
    }
    if (flag == 0)
    {
        printf("%d ", low);
        ++low;
    }
    printf("\n");
}
return 0;

```

Q) Sum of digits of a number

8) sum of digits of a number

{ include <stdio.h>
int main()

{ int num, sum = 0, remainder;

printf ("Enter an integer : ");

scanf ("%d", &num);

while (num != 0)

{

remainder = num % 10;

sum = sum + remainder;

num = num / 10;

}

printf ("sum of digits: %d\n", sum);

return 0;

}