

Assignment-6

1 - #include <stdio.h>

int main()

{

 int n, s=0, i=1

 printf(" Enter a number \n");

 scanf(" %d", &n);

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

 {

 s+=i;

}

 printf(" Sum is %d", s);

}

2 - #include <stdio.h>

int main()

{

 int n, s=0, i;

 printf(" Enter a number \n");

 scanf(" %d", &n);

 for (i=1, j=n ; i<=j ; i++, j--)

{

 s = s + (i*2);

 s += i;

}

 printf(" Sum is %d", s*2);

}

3. #include <stdio.h>

int main()

{

 int m, i, s = 0;
 printf("Enter a number");
 scanf("%d", &m);

 for (i=1; i<=m*2; i+=2)

{

 s += i;

}

 printf("Sum is %.d", s);

}

4. #include <stdio.h>

int main()

{

 int n, i, s = 0;
 printf("Enter a number");
 scanf("%d", &n);

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

{

 s += i * i;

}

 printf("Sum is %.d", s);

}

5 #include <stdio.h>
int main()

{

```
int n, i, s = 0;
printf("Enter a number");
scanf("%d", &n);
for (i=1; i<=n; i++)
{
```

$s = s + i * i * i;$

}

```
printf("Sum is %.d", s);
```

}

6- #include <stdio.h>
int main()

{

~~int n, i, s;~~

int n, s, i;

```
printf("Enter a number");
scanf("%d", &n);
```

```
for (i=1, s=1; i<=n; i++)
{
```

$s *= i;$

}

```
printf("Factorial is %.d", s);
```

}

8.

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

```
int main()
```

```
{
```

```
    int i, n, flag = 0, m = 0;
```

```
    printf("Enter a number");
```

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

```
    m = n / 2;
```

```
    for (i = 2; i <= m; i++)
```

```
{
```

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

```
{
```

```
        printf("Not Prime");
```

```
        flag = 1;
```

```
        break;
```

```
}
```

```
}
```

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

```
    printf("Prime");
```

9.

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

```
int main()
```

```
{
```

```
    int n1, n2, max;
```

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

```
    scanf("%d %d", &n1, &n2);
```

$\max = (m1 > m2) ? m1 : m2 ;$

while (1)

{

if ($\max \% m1 == 0 \& \& \max \% m2 == 0$)

{

printf ("LCM of %d and %d is %d", $m1, m2, \max$);

break;

}

$\max ++$;

}

2