

Assignment-6

1.

```
int main() {  
    int i, n, sum = 0;  
    scanf("%d", &n);  
    if (i = 1; i <= n; i++)  
        sum = sum + i;  
    printf("%d", sum);  
    return 0;  
}
```

2.

```
int main() {  
    int i, n, sum = 0;  
    scanf("%d", &n);  
    for (i = 1; i <= n; i++)  
        sum = sum + 2 * i;  
    printf("%d", sum);  
    return 0;  
}
```

3.

```
int main() {  
    int i, n, sum = 0;  
    scanf("%d", &n);  
    for (i = 1; i <= n; i++)  
        sum = sum + (2 * i - 1);  
    printf("%d", sum);  
    return 0;  
}
```

4.

```
int main() {  
    int i, n, sum = 0;  
    scanf("%d", &n);  
    for (i = 1; i <= n; i++)  
        sum = sum + i * i;  
    printf("%d", sum);  
    return 0;  
}
```

5.

```
int main() {  
    int i, n, sum = 0;  
    scanf("%d", &n);  
    for (i = 1; i <= n; i++)  
        sum = sum + i * i;  
    printf("%d", sum);  
    return 0;  
}
```

6.

```
int main() {  
    int i, n, fact = 1;  
    scanf("%d", &n);  
    for (i = n; i >= 1; i--)  
        fact = fact * i;  
    printf("%d", fact);  
    return 0;  
}
```

7.

```
int main() {  
    int n, count = 0;  
    scanf("%d", &n);  
    while (n != 0) {  
        n = n / 10;  
        count++;  
    }
```

```
    printf("digit %d", count);  
    return 0;  
}
```

8.

```
int main() {  
    int n, i, flag = 0;  
    printf("Enter value");  
    scanf("%d", &n);  
    for (i = 2; i <= n; i++) {  
        if (n % i == 0) {
```

```
flag = 1;  
break;
```

```
}
```

```
}
```

```
if (flag == 1)
```

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

```
else
```

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

```
return 0;
```

```
}
```

9.

```
int main () {
```

```
int a, b, i;
```

```
scanf("%d %d", &a, &b);
```

```
for (i = 1; i <= a * b; i++) {
```

```
if ((i % a == 0) && (i % b == 0))
```

```
break;
```

```
}
```

```
printf("LCM is %d", i);
```

```
return 0;
```

```
}
```

10.

```
int main () {
```

```
int n, i, rem, rev = 0
```

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

```
while (n != 0) {
```

```
rem = n % 10;
```

```
n = n / 10;
```

```
rev = rev * 10 + rem;
```

```
}
```

```
printf("Reverse is %d", rev);
```

```
return 0;
```

```
}
```