

Assignment solution – 06

1. #include<stdio.h>

```
int main()
{
    int a,b,c=0;
    printf("Enter a number: \n");
    scanf("%d",&b);
    for(a=1; a<=b ;a++)
    {
        c=c+a;
    }
    printf("the sum of %d is %d\n",b, c);
    printf("\n");
    return 0;
}
```

2. #include<stdio.h>

```
int main()
{
    int a,b,c=0;
    printf("Enter a number: \n");
    scanf("%d",&b);
    for(a=2; a<=2*b ;a=a+2)
    {
        c=c+a;
    }
    printf("the sum of %d even natural numbers is %d\n",b, c);
    printf("\n");
    return 0;
}
```

3. #include<stdio.h>

```
int main()
{
    int a,b,c=0;
    printf("Enter a number: \n");
    scanf("%d",&b);
    for(a=1; a<=2*b ;a=a+2)
    {
        c=c+a;
    }
}
```

```
printf("the sum of %d odd natural numbers is %d\n",b, c);  
printf("\n");  
return 0;
```

```
}
```

4. #include<stdio.h>

```
int main()
```

```
{
```

```
int a,b,c=0;
```

```
printf("Enter a number: \n");
```

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

```
for(a=1; a<=b ;a++)
```

```
{
```

```
c=c+a*a;
```

```
}
```

```
printf("The sum of squares of first natural numbers %d is %d\n",b, c);
```

```
printf("\n");
```

```
return 0;
```

```
}
```

5. #include<stdio.h>

```
int main()
```

```
{
```

```
int a,b,c=0;
```

```
printf("Enter a number: \n");
```

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

```
for(a=1; a<=b ;a++)
```

```
{
```

```
c=c+a*a*a;
```

```
}
```

```
printf("The sum of squares of first natural numbers %d is %d\n",b, c);
```

```
printf("\n");
```

```
return 0;
```

```
}
```

6. #include<stdio.h>

```
int main()
```

```
{
```

```
int a,b,c=1;
```

```
printf("Enter a number: \n");
```

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

```
for(a=1; a<=b; a++)
```

```
{
```

```

        c=c*a;
    }
    printf("The factorial of %d is %d\n",b, c);
    printf("\n");
    return 0;
}
7. #include<stdio.h>
int main()
{
    int a,b=0;
    printf("Enter a number :\n");
    scanf("%d",&a);
    while(a!=0)
    {
        a=a/10;
        b++;
    }
    printf("the count of given nimber is %d",b );
    printf("\n");
    return 0;
}
8. #include<stdio.h>
int main()
{
    int a,b,c;
    printf("Enter a number :\n");
    scanf("%d",&a);
    for(b=2;b<a;b++)
    {
        if(a%b==0)
        {
            c=1;
            break;
        }
    }
    if(c==1)
        printf("your enter the wrong data oops i mean the given number is not
prime");
    else
        printf("yoo its prime number");
}

```

```
printf("\n");  
return 0;
```

```
}
```

9.