

## Lab 2

1. What is the output of the following code?

```
int a=9, b=6;
a++;
a=a+b--;
a=a+ (--b);
if(a%2==0)
    printf("a is an even");
printf("Sum a and b is : %d", a+b);
```

2. What is the output of the following code?

```
int a=7, b=8;
a++;
a=a+(b--);
--b;
a--;
a=(-a)+(--b);
if(a%2!=0)
    printf("\n a is an odd");
else
    printf("\n a is an even");
printf("\na = %d",a);
```

3. What is the output of the following code?

```
int x=5, y;
y=x++ + 5;
printf("x=%d, y=%d\n", x, y);
y*=6;
x=y%7;
printf("x=%d,y=%d,y/x=%d", x, y, y/x);
```

4. What is the output of the following code?

```

int a=18;
for(int i=1; i<=a; i++)
    if(a%i==0)
        printf("\t %d", i);

```

5. What is the output of the following code?

```

for (int i=0; i<5; i++)
{
    for(int j=0; j<=i; j++)
        printf("%d\t", j);
    printf("\n");
}

```

6. What is the output of the following code?

```

int i=10, s=0;
while(i>0)
{
    if(i%2==0)
        s+=i;
    else
        if(i>5)
            s+=2*i;
    i--;
}
printf("s = %d",s);

```

7. What is the output of the following code?

```

int a=18, i=1;
do{
    if(a%i==0)
        printf("\t %d",i);
    i++;
}

```

```
    } while(i<=a);
```

8. What is the output of the following code?

```
int a=11, b=16, i=a;
while( i<b )
{
    if(i%2==0)
    {
        printf("\t %d", i);
        break;
    }
    i++;
}
```

9. What is the output of the following code?

```
int a=10, s=0, i=0;
while( i<a )
{
    i++;
    if(i%2==0) continue;
    else s = s+i;
}
printf("s=%d",s);
```

10. What is the output of the following code?

```
int i=1, s=0;
while(1)
{
    s=s+i++;
    if(i%2)
        i=i+2;
    else
```

```

        i=i+1;
    if(i>20)
        break;
}
printf("%d",s);

```

11. Write program to draw a solid rectangle of size  $m \times n$ . Input  $m, n$  from keyboard.

Eg: Input  $m = 5, n = 4$

```

* * * * *
* * * * *
* * * * *
* * * * *

```

12. Write program to draw a hollow rectangle of size  $m \times n$ . Input  $m, n$  from keyboard.

Eg: Input  $m = 5, n = 4$

```

* * * * *
*           *
*           *
*           *
* * * * *

```

13. Write program to draw a solid right triangle of height  $h$ . Input  $h$  from keyboard.

Eg: Input  $h = 4$

```

*
* *
* * *
* * * *

```

14. Write program to draw a hollow right triangle of height  $h$ . Input  $h$  from keyboard.

Eg: Input  $h = 4$

```

*
* *
*   *
* * * *

```

15. Write program to draw a solid isosceles triangle of height  $h$ . Input  $h$  from keyboard.

Eg: Input  $h = 4$

```
      *
     * * *
    * * * * *
   * * * * * *
```

16. Write program to draw a hollow isosceles triangle of height  $h$ . Input  $h$  from keyboard.

Eg: Input  $h = 4$

```
      *
     *   *
    *       *
   *         *
  * * * * * *
```