

## Question No-16:

//PROGRAM TO READ THE RADIUS OF THE CIRCLE AND TO  
CALCULATE THE AREA OF THE CIRCLE

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

```
int main()
```

```
{
```

```
    float pi,r,a;
```

```
    pi=r=a=0;
```

```
    pi=3.14;
```

```
    printf("ENTER THE RADIUS OF THE CIRCLE :");
```

```
    scanf("%f",&r);
```

```
    //LET a BE THE AREA AND r BE THE RADIUS
```

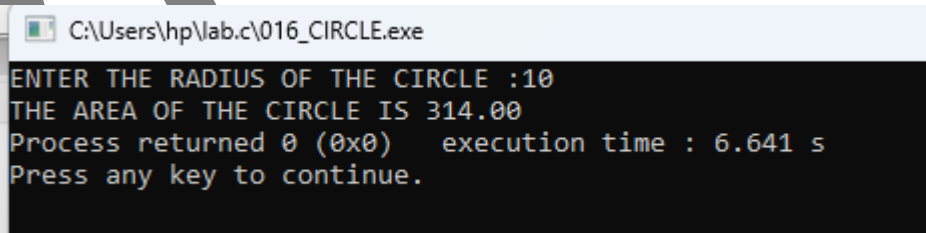
```
    a=pi*r*r;
```

```
    printf("THE AREA OF THE CIRCLE IS %0.2f",a);
```

```
    getch();
```

```
    return 0;
```

```
}
```



The screenshot shows a Windows command prompt window titled "C:\Users\hp\lab.c\016\_CIRCLE.exe". The output of the program is as follows:

```
ENTER THE RADIUS OF THE CIRCLE :10
THE AREA OF THE CIRCLE IS 314.00
Process returned 0 (0x0)   execution time : 6.641 s
Press any key to continue.
```