EXPERIMENT NO.4

SOLUTIONS

1. **Print following output using for loop**

   1

   22

   333

   4444

Ans-

#include<stdio.h>

#include<conio.h>

void main()

{int d,num,rev=0,org;

clrscr();

for(i=1;i<=4;i++)

{for(j=1;j<=i;j++)

{printf("%d",i);}

printf("\n");

}

getch();

}

Program to implement in Lab:-

2   **Write a C program to Print following output using while looping statement.**

* * * * *

 * * * *

```
   * * *

    * *

     *
```

Ans-

```c
#include<stdio.h>

#include<conio.h>

void main()

{int i,j,k;

clrscr();

for(i=1;i<=5;i++)

{k=0;

while(k<i)

{printf(" ");

k++;}

for(j=1;j<=(6-i);j++)

{printf(" *");

}printf("\n");

}getch();

}
```

Program to implement in Lab:-

3 Find Fibonacci series (up to 10) using do while looping statement

Ans-

```c
#include<stdio.h>

#include<conio.h>

void main()
```

```c
{int i,f=0,s=1,t;

printf("\n%d\n%d",f,s);

for(i=0;i<=7;i++)

{t=f+s;

printf("%d",t);

f=s;

s=t;

}

getch();

}
```

4.   Write a program to check given number is palindrome or not using do while loop.

Ans-

```c
#include<stdio.h>

#include<conio.h>

void main()

{int num,a,rev=0,original;

clrscr();

printf("enter any number\n");

scanf("%d",&num);

original=num;

while(num>0)

{a=num%10;

rev=rev*10+a;

num=num/10;}

if(original==rev)

{printf("the number is palindrome");}
```

else

{printf("NUMBER IS NOT PALINDROME");}

getch();

}

5.   Write a program to display even numbers in between 1 to 10 using while loop.

Ans-

```c
#include<stdio.h>

#include<conio.h>

void main()

{int i=0;

clrscr();

while(i<=10)

{if(i%2==0)

 printf("%d\n",i);

 i+=2;

 }getch();

 }
```