Experiment No 1 Problem Statements

1. Given a positive integer, the task is to check whether the number is palindrome or not.

```
/*Name:-Anuj Rajendra Mane
Roll:-65
Div:-A
Subject:- Data Structures*/
#include<stdio.h>
int main()
{
      int no,b,rev=0,cpy;
      printf("Enter any number\n");
      scanf("%d",&no);
      cpy=no;
      while(no!=0)
            b=no%10;
            rev=rev*10+b;
            no=no/10;
      }
      if(cpy==rev)
      printf("Palindrome");
      else
      printf("Not Palindrome");
}
```

2.Print the following output.

```
### Output ###
       *
/*Name:-Anuj Rajendra Mane
Roll:-65
Div:-A
Subject:- Data Structures*/
#include<stdio.h>
int main()
for(int i=1; i<=5; i++)
      for(int j=1; j<=5; j++)
        if((i+j)>=6)//change only
this line in all program
    printf("* ");
    else
    printf(" ");
      printf("\n");
}
```

3. Write a program of Linear Search.

```
/*Name:-Anuj Rajendra Mane
Roll:-65
Div:-A
Subject:- Data Structures*/
#include<stdio.h>
int main()
      int
roll[10]={14,52,63,45,65,84,75,96,5
1,62};
      int r,m=0;
      printf("Roll number is given
below\n");
      for(int i=0; i<=9; i++)
      printf("%d ",roll[i]);
      printf("\nEnter your rollno to
search\n");
      scanf("%d",&r);
      for(int j=1; j <=9; j++)
             if(r==roll[j])
                   printf("Rollno is
found at position=%d",j+1);
                   m=1;
```

```
}
if(m==0)
printf("Not Found");
}
```

4. Enter Any Number to print Fibonacci Series.

```
/*Name:-Anuj Rajendra Mane
Roll:-65
Div:-A
Subject:- Data Structures*/
#include<stdio.h>
int main()
int no,a,b=1,c=0;
printf("Enter any number upto you
want to print fabonacci series\n");
scanf("%d",&no);
for(int i=1;i<=no;i++)
{
      printf("%d ",c);
      a=b;
      b=c;
      c=a+b;
}
```