```
a)
                                                               e)
        #include <stdio.h>
                                                                        #include <stdio.h>
        int main()
                                                                        int main()
                                                                        {
          int x;
                                                                          int x;
          for(x=1;x<=10;x++){
                                                                          for(x=2;x<=33;x=2*x-1){
            printf("%d\n",x);
                                                                            printf("%d\n",x);
          }
                                                                          }
        return 0;
                                                                        return 0;
        }
                                                                        }
b)
                                                               f)
        #include <stdio.h>
                                                                        #include <stdio.h>
                                                                        int main()
        int main()
                                                                        {
          int x;
                                                                          int x;
          for(x=10;x>=1;x--){
                                                                          for(x=3;x<50;x+=2){
            printf("%d\n",x);
                                                                            printf("%d\n",x);
                                                                          }
          }
        return 0;
                                                                        return 0;
                                                                        }
c)
        #include <stdio.h>
                                                               g)
        int main()
                                                                        #include <stdio.h>
        {
                                                                        int main()
          int x;
                                                                        {
          for(x=1;x<10;x+=2){
                                                                          int x;
            printf("%d\n",x);
                                                                          for(x=2;x<50;x+=2){
          }
                                                                            printf("%d\n",x);
        return 0;
                                                                          }
        }
                                                                        return 0;
d)
                                                                        }
        #include <stdio.h>
        int main()
                                                               h)
                                                                        #include <stdio.h>
          int x;
                                                                        int main()
          for(x=1;x<=52;x+=3){
                                                                        {
            printf("%d\n",x);
                                                                          int x;
          }
                                                                          for(x=3;x<50;x+=3){
        return 0;
                                                                            printf("%d\n",x);
        }
                                                                          }
                                                                        return 0;
                                                               }
```

```
i)
                                                               I)
        #include <stdio.h>
                                                                       #include <stdio.h>
        int main()
                                                                       int main()
        {
                                                                       {
          int x,sum=0;
                                                                          int x,count=0;
          for(x=1;x<=10;x++){
                                                                          for(x=1;x<=50;x++){
            sum=sum+x;
                                                                           if(x\%2==1){
                                                                           count=count+1;
          printf("Summation is:%d\n",sum);
                                                                           }
                                                                          }
        return 0;
                                                                          printf("number of even number is:%d\n",count);
        }
j)
                                                                       return 0;
        #include <stdio.h>
                                                                       }
        int main()
                                                               m)
          int x,mul=1;
                                                                       #include <stdio.h>
          for(x=1;x<=10;x++){
                                                                       int main()
            mul=mul*x;
                                                                       {
                                                                          int x,sum=0;
          printf("Multiplication is:%d\n",mul);
                                                                          for(x=2;x<=30;x++){
                                                                           if(x\%2==0){
        return 0;
                                                                           sum=sum+x;
                                                                           }
                                                                          }
k)
                                                                          printf("Sum is:%d\n",sum);
        #include <stdio.h>
                                                                       return 0;
        int main()
                                                                       }
          int x,count=0;
                                                               n)
          for(x=1;x<=50;x++){
                                                                       #include <stdio.h>
            if(x\%2==0){
                                                                       int main()
            count=count+1;
                                                                       {
            }
                                                                          int x,product=1;
                                                                          for(x=1;x<=15;x++){
          printf("number of even number is:%d\n",count);
                                                                           if(x\%2==1){
                                                                            product=product*x;
                                                                           }
        return 0;
                                                                          printf("product is:%d\n",product);
                                                                       return 0;
                                                                       }
```

```
04)
        #include<stdio.h>
                                                            #include<stdio.h>
        int main()
                                                            int main()
        {
          int n,i,c=0;
                                                              int x=0,y=1,z;
                                                              int n;
          printf("Enter your number:");
                                                              printf("Enter number:");
          scanf("%d",&n);
                                                              scanf("%d",&n);
          for(i=1;i<=n;i++){
                                                              printf("%d\t%d\t",x,y);
            if(n%i==0){
                                                              for (int i=2;i<=n;i++){
               C++;
                                                                z=x+y;
            }
                                                                printf("%d\t",z);
          }
                                                                x=y;
          if(c==2){
                                                                y=z;
             printf("This is a prime number\n");
          }
                                                              }
          else{
             printf("This is a not prime number\n");
                                                            return 0;
          }
                                                            }
        return 0;
                                                            05)
        }
                                                            #include<stdio.h>
                                                            int main()
03)
        #include<stdio.h>
                                                              int n,x=0,q,y;
        int main()
                                                              printf("Enter number:");
                                                              scanf("%d",&n);
          int n,i,c=0;
                                                              q=n;
          printf("Enter your number:");
          scanf("%d",&n);
                                                              while(q!=0){
          if(n>0){
                                                                y=q%10;
            for(i=1;i<=n;i++){
                                                                x = x*10 + y;
               if(n\%i==0){
                                                                q=q/10;
                 printf("%d\n",i);
                                                             }
               }
            }
                                                              if(x==n){
                                                              printf("This is a Palindrome number\n");
          }
                                                             }
        return 0;
                                                              else{
        }
                                                              printf("This is not a Palindrome number\n");
                                                             }
                                                            return 0;
```

02)

```
06)
                                                        b)
        #include<stdio.h>
                                                                #include <stdio.h>
        int main()
                                                                int main(){
                                                                int x, i, j, k, l;
          float n,i,x,sum=0;
                                                                for(x=1; x<=3; x++){
          printf("Enter Your number:");
                                                                 for(i=1; i<=3; i++){
          scanf("%f",&n);
                                                                 for(j=i; j<3; j++){
                                                                 printf(" ");
          for(i=1;i<=n;i++){
             x=i*i;
             sum= sum+(1/x);
                                                                 for(k=1; k<=i; k++){
                                                                 printf("X");
          }
          printf("Sum of the loop is:%f\n",sum);
                                                                }
        return 0;
                                                                 for(l=1; l<i; l++){
        }
                                                                 printf("X");
07)
                                                                }
        #include<stdio.h>
                                                                 printf("\n");
        int main()
                                                                }
          int i,n;
          for(i=1;i<=10;i++){
                                                                return 0; }
          n=i*(i+1)/2;
          printf("%d\n",n);
                                                        c)
          }
                                                                #include <stdio.h>
        return 0;
                                                                int main(){
                                                                int x, y, z;
                                                                for(x=1;x<=5;x++) {
08) a)
                                                                 for(y=1;y<=x;y++) {
        #include<stdio.h>
                                                                 printf("%d",y);
        int main()
        {
                                                                }
          int x,y;
                                                                 for(z=4;z>=x;z--) {
          for(x=6;x>=1;x--){
                                                                 printf("*",z);
          for(y=1;y<=x;y++){
             printf("*");
                                                                }
                                                                 printf("\n");
          printf("\n");
          }
                                                                return 0;
          for(x=2;x<=6;x++){
                                                                }
          for(y=1;y<=x;y++){
             printf("*");
          printf("\n");
          }
        return 0;
        }
```

```
d)
        #include <stdio.h>
        int main(){
        int x, y, z;
        for(x=1;x<=6;x++) {
        for(y=1;y<x;y++) {
        printf(" ",y);
        for(z=6;z>=x;z--) {
        printf("*",z);
        }
        printf("\n");
        return 0;
        }
e)
        #include <stdio.h>
        int main(){
        int a, b, c, d;
        for(a=1;a<=5;a++) {
        for(b=1;b<=a;b++) {
        printf("%d",b);
        printf("\n");
        for(c=5;c>=1;c--) {
        for(d=1;d<c;d++) {
        printf("%d",d);
        printf("\n");
        return 0;
```