

Assignment-7A

Consider the following code:

```
#include<stdio.h>
int main()
{
    int a,b,c,d,i,f=1;
    printf("\n Enter two numbers:");
    scanf("%d",&a,&b);
    c=a+b;
    printf("c is %d",c);
    c=a*b;
    printf("c is %d",c);
    for(i=1;i<=a;i++)
        f=f*i;
    d=(a*a)-(b*b*b);
    i=a/b;
    if(b%2==0)
        printf("\n b is even");
    else
        printf("\n b is odd");
}
```

Assignment-7A (contd.)

Rewrite the code maintaining coupling, cohesion, coding guideline.

Assignment-7B

Consider the following code: (part-1)

```
#include<stdio.h>
int x,y,z;
int main()
{
    display();
    receive();
    addition();
}
void display()
{
    printf("Enter a number:");
    printf("Output is :%d",z);
}
void receive()
{
    scanf("%d%d",&x,&y);
}
```

Assignment-7B (contd.)

Consider the following code: (part-2)

```
void addition()  
{  
    z=x+y;  
}  
void subtraction()  
{  
    z=x-y;  
}
```

Assignment-7B (contd.)

*Rewrite the code maintaining
coupling, cohesion.*

Assignment-7C

Consider the following code: (part-1)

```
#include<stdio.h>
int main()
{
    int a[10],i,j,n,sum=0,max,min;
    printf("Enter the number of elements\n");
    scanf("%d",&n);

    printf("Enter the elements\n");
    for(i=0;i<n;i++)
        scanf("%d",&a[i]);

    max=a[0];
    min=a[0];
```

Assignment-7C (contd.)

Consider the following code: (part-2)

```
for(j=0;j<n;j++)
{
    sum=sum+a[j];
    if(a[j]>max)
        max=a[j];

    if(a[j]<min)
        min=a[j];

}
printf("\n Sum of elements is %d",sum);
printf("\n Difference is %d",max-min);
```

Assignment-7C (contd.)

*Rewrite the code maintaining
coupling, cohesion.*

Assignment-7D

Consider the following code:

```
#include<stdio.h>
int main()
{
    int i,n,f=1;
    printf("\n Enter the number:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        f=f*i;
    }
    printf("\n Output is %d",f);
}
```

Assignment-7D (contd.)

Rewrite the code for validity checking in case of taking single digit numeric value(from 1 to 7).