

Assignment on 5 Coding Questions

1.Even or Odd program

Code:

```
#include <stdio.h>

int main() {

    int n;

    scanf("%d",&n);

    if(n%2==0)

        printf("Even");

    else

        printf("Odd");

    return 0;

}
```

2.Absolute Difference of evensum and oddsum

Code:

```
#include<stdio.h>

#include<stdlib.h>

int main(){

    int n,esum=0,osum=0,s;

    scanf("%d",&n);

    while(n){

        s=n%10;

        if(n%2==0)

            esum+=s;

        else

            osum+=s;

    }
```

```

        n=n/10;
    }
    printf("Absolute Difference : %d",abs(esum-osum));
    return 0;
}

```

3.Prime number program

Code:

```

#include<stdio.h>

int main() {
    int n, c= 0;

    scanf("%d",&n);

    if (n<=1){
        printf("%d is not prime");
        return 0;
    }

    for (int i=2; i<=n/2; i++){
        if(n%i== 0) {
            c++;
            break;
        }
    }

    if (c== 0)
        printf("%d is prime");
    else
        printf("%d is not prime");

    return 0;
}

```

4.Perfect Number Program

Code:

```
#include <stdio.h>

int main() {
    int sum=0,n;
    scanf("%d",&n);
    for(int i=1;i<=n/2;i++){
        if(n%i==0){
            sum+=i;
        }
    }
    if(sum==n){
        printf("perfect");
    }else{
        printf("Not perfect");
    }return 0;
}
```

5.Pronic number program

Code:

```
#include<stdio.h>

int main(){
    int n,i=0;
    scanf("%d",&n);
    while(i*(i+1)<n)
        i++;
    if(i*(i+1)==n)
        printf("pronic");
    else
        printf("not pronic");
}
```

```
return 0;
```

```
}
```