

ASSIGNMENT NO. 6

Question no. 1

```
#include<stdio.h>

int main(){

    int i,n,sum=0;

    printf("enter a number");

    scanf("%d",&n);

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

        sum=sum+i;

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

    } }
```

Question no. 2

```
#include<stdio.h>

int main(){

    int i,n,sum=0;

    printf("enter a number");

    scanf("%d",&n);

    for(i=2;i<=n;i=i+2) {

        sum=sum+i;

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

    } }
```

Question no. 3

```
#include<stdio.h>

int main(){

    int i,n,sum=0;

    printf("enter a number");

    scanf("%d",&n);

    for(i=1;i<=n;i=i+2) {

        sum=sum+i;
```

```
printf("%d\n",sum);  
} }
```

Question no. 4

```
#include<stdio.h>  
  
int main(){  
    int i,n,sum=0;  
    printf("enter a number");  
    scanf("%d",&n);  
    for(i=1;i<=n;i++) {  
        sum=sum+i*i;  
        printf("%d\n",sum);  
    } }
```

Question no. 5

```
#include<stdio.h>  
  
int main(){  
    int i,n,sum=0;  
    printf("enter a number");  
    scanf("%d",&n);  
    for(i=1;i<=n;i++) {  
        sum=sum+i*i*i;  
        printf("%d\n",sum);  
    } }
```

Question no. 6

```
#include<stdio.h>  
  
int main(){  
    int i,n,fact=1;  
    printf("enter a number");  
    scanf("%d",&n);  
    for(i=1;i<=n;i++) {
```

```
        fact=fact*i;
    }
    printf("factorial of %d is %d\n",n,fact);
}
```

Question no. 7

```
#include<stdio.h>

int main(){
    int i,n,count=0;
    printf("enter a number");
    scanf("%d",&n);
    while(n!=0) {
        n=n/10;
        count++;
    }
    printf("%d\n",count);
}
```

Question no. 8

```
int main(){
    int i,n,flag;
    printf("enter a number");
    scanf("%d",&n);
    for(i=2;i<n;i++) {
        if(n%i==0) {
            flag=1;
            break;
        }
    }
    if(flag==1)
        printf("non prime number");
}
```

```
else
    printf("prime number");
}
```

Question no. 9

```
#include<stdio.h>

int main(){
    int i,n,a,b;
    printf("enter a number");
    scanf("%d %d",&a,&b);
    for(i=1;i<=a*b;i++) {
        if((i%a==0)&&(i%b==0)) {
            break;
        }
    }
    printf("LCM IS %d",i);
}
```

Question no. 10

```
#include<stdio.h>

int main(){
    int i,n,remainder,reverse;
    printf("enter a number\n");
    scanf("%d",&n);
    while(n!=0) {
        remainder=n%10;
        n=n/10;
        reverse=reverse*10+remainder;
    }
    printf("%d",reverse);
}
```