# **EEE101** C Programming and Software Engineering Solutions to Lab Practice 4

# Exercise 1

```
for loop
```

```
#include<stdio.h>
main(){
int i;

for(i=1;i<11;i++){
        printf("%d %d\n",i,i*i);
        }
}

while loop

#include<stdio.h>

main(){
    int i=1;

while(i<11){
        printf("%d %d\n",i,i*i);
        i++;
        }
}</pre>
```

### Exercise 2

### Exercise 3

```
#include<stdio.h>

main(){
int i;

for(i=1;i<11;i++){
    if(i%2==0)
        printf("%d is even\n",i);
    else
        printf("%d is odd\n",i);
    }
}</pre>
/* using the modulus operator % to check if the number is even */

else

printf("%d is odd\n",i);
}
```

### Exercise 4

# Exercise 5

```
#include<stdio.h>
main(){
int i,j;
float sum=0.0;

printf("Please enter a positive integer.\n");
scanf("%d", &n);

for(i=1;i<=n;i++){
    sum = sum + ((float) 1/i);    /* to compute the sum according to the given
    }
    printf("The sum is %.5f\n",sum);
}</pre>
```