Discount

#include<stdio.h>

int main()

{

int price, quantity, total\_cost=0;

float discount=0.0;

printf("enter the price of product you bought: ");

scanf("%d",&price);

printf("enter the quanity of product: ");

scanf("%d",&quantity);

for (int i=1;i<=quantity;i++)

{

if (i>5)

{

discount=0.1\*price;

}

else {discount=0.0;}

total\_cost+=prive-discount;

}

printf("your total cost is %d", total\_cost);

return 0;

}

Account  
#include<iostream>

int main()

{

int acc\_no,flag;

int reversed\_acc\_no;

flag=1;

do {

printf("enter your account number: ");

scanf("%d",&acc\_no);

if(acc\_no<0)

{

printf("negative number not allowed");

flag=0;

continue;

}

reversed\_acc\_no = 0;

int temp = acc\_no; // Store original account number for comparison

while (temp != 0) {

reversed\_acc\_no = reversed\_acc\_no \* 10 + temp % 10; // Build reversed number

temp /= 10; }

if (acc\_no==reversed\_acc\_no)

{

printf("your number is a palindrome\n");

}

else

{

printf("your number is not a palindrome\n");

}

printf("enter another account number?: ");

scanf("%d",&flag);

}while (flag==1);

return 0;

}

Factorial  
#include<iostream>

int main()

{

int number;

long long factorial=1;

printf("enter any number: ");

scanf("%d",&number);

int i=1;

while (i<=number)

{

factorial=factorial\*i;

i++;

}

printf("the factorial is %lld",factorial);

return 0;

}

Random

#include<stdlib.h>

#include<time.h>

#include<stdio.h>

int main()

{

srand(time(0));

int guessed\_correctly=0;

int guess;

int random\_number=rand()%100+1;

printf ("guess the number between 1-100\n");

printf ("enter your guess: ");

while (!guessed\_correctly)

{

scanf("%d",&guess);

if (guess<random\_number)

{

printf("Too Low! try again");

}

else if (guess>random\_number)

{

printf ("too high! try again");

}

else {printf ("congratulations! you guessed the correct number");

guessed\_correctly=1;

}

}

return 0;

}

Number

#include <stdio.h>

int main()

{

int number;

int number\_of\_digits=0;

printf ("enter any number: ");

scanf ("%d",&number);

if (number==0)

{

number\_of\_digits= 1;

}

else {

int temp=number;

while (temp!=0)

{

temp=temp/10;

number\_of\_digits++;

}

}

printf("the number of digits is %d ",number\_of\_digits);

return 0;

}