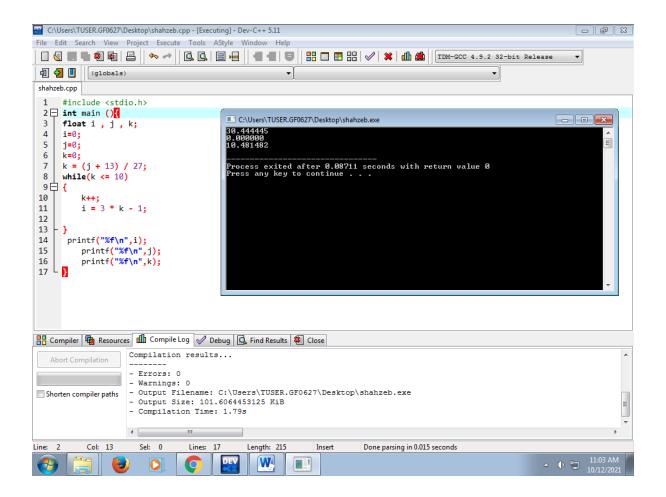
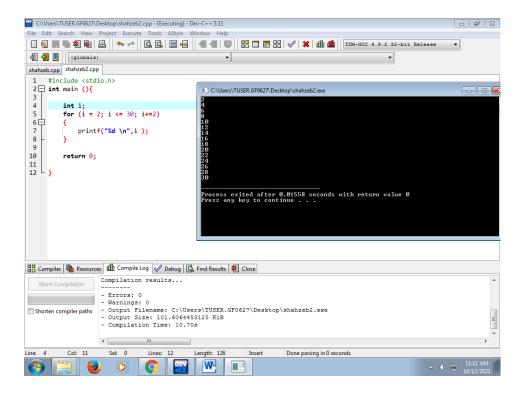
S M SHAHZEB NAQVI MCS PREVIOUS LAB 6 P20101036 Class assignment Submitted to Miss Farzeen

```
#include <stdio.h>
int main (){
float i , j , k;
i=0;
j=0;
k=0;
k = (j + 13) / 27;
while(k <= 10)
{
  k++;
 i = 3 * k - 1;
}
printf("%f\n",i);
  printf("%f\n",j);
               printf("%f\n",k);
}
```



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

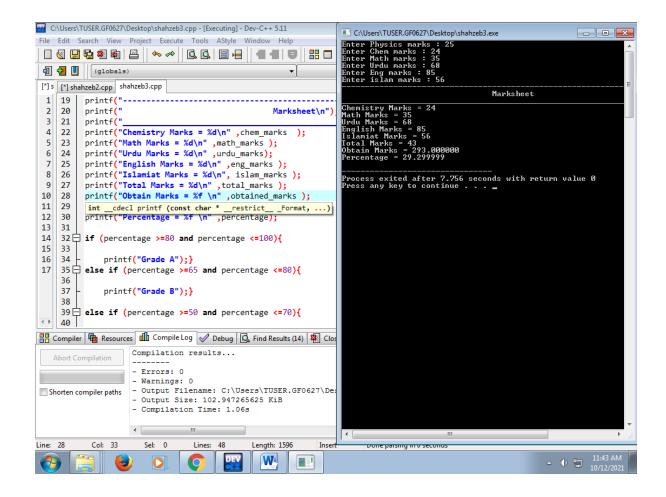
```
int i;
for (i = 2; i <= 30; i+=2)
{
    printf("%d \n",i );
}
return 0;
}</pre>
```





```
#include<stdio.h>
int main(){
int phy_marks,chem_marks,math_marks,urdu_marks,eng_marks,islam_marks,total_marks;
float percentage, obtained marks;
printf("Enter Physics marks : ");
scanf("%d",&phy_marks);
printf("Enter Chem marks : ");
scanf("%d",&chem_marks);
printf("Enter Math marks : ");
scanf("%d",&math_marks);
printf("Enter Urdu marks : ");
scanf("%d",&urdu marks);
printf("Enter Eng marks : ");
scanf("%d",&eng marks);
printf("Enter islam marks : ");
scanf("%d",&islam marks);
obtained_marks = phy_marks + chem_marks + math_marks + urdu_marks + eng_marks +
islam_marks;
printf("-----\n");
printf("
                      Marksheet\n");
printf("
                                                                                        \n")
printf("Chemistry Marks = %d\n",chem marks );
printf("Math Marks = %d\n" ,math_marks );
printf("Urdu Marks = %d\n" ,urdu_marks);
printf("English Marks = %d\n" ,eng_marks );
printf("Islamiat Marks = %d\n", islam marks );
printf("Total Marks = %d\n" ,total_marks );
printf("Obtain Marks = %f \n", obtained_marks);
percentage=((obtained_marks / 1000) * 100);
printf("Percentage = %f \n" ,percentage);
if (percentage >=80 and percentage <=100){
  printf("Grade A");}
else if (percentage >=65 and percentage <=80){
```

```
printf("Grade B");}
else if (percentage >=50 and percentage <=70){
    printf("Grade C");}
else if (percentage >=40 and percentage <=60){
    printf("Grade D");}
else if ( percentage >=0 and percentage <=50){
}
}</pre>
```

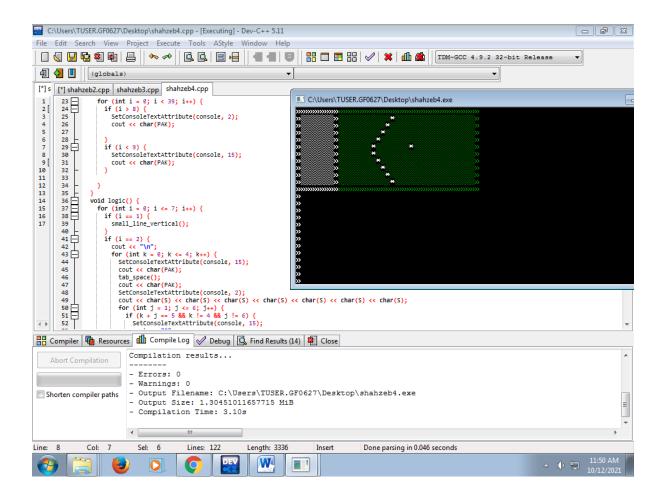


#include<iostream>

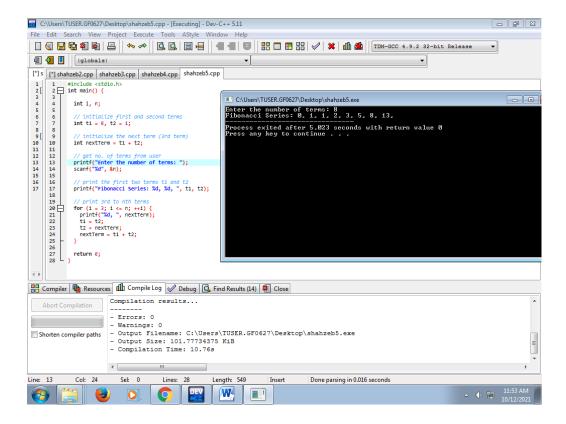
```
#include <windows.h>
#define PAK 175
#define S 176
using namespace std;
static HANDLE out = GetStdHandle(STD_OUTPUT_HANDLE);
HANDLE console = GetStdHandle(STD_OUTPUT_HANDLE);
class Pakistan {
 public:
  void tab space() {
   for (int a = 0; a < 7; a++) {
    cout << char(S);</pre>
   }
  }
 void hor() {
  for (int i = 0; i < 10; i++) {
   cout << char(PAK) << "\n";</pre>
  }
 }
 void small_line_vertical() {
  for (int i = 0; i < 39; i++) {
   if (i > 8) {
    SetConsoleTextAttribute(console, 2);
    cout << char(PAK);</pre>
   if (i < 9) {
    SetConsoleTextAttribute(console, 15);
    cout << char(PAK);</pre>
   }
  }
 void logic() {
  for (int i = 0; i \le 7; i++) {
   if (i == 1) {
    small_line_vertical();
   }
   if (i == 2) {
    cout << "\n";
    for (int k = 0; k \le 4; k++) {
     SetConsoleTextAttribute(console, 15);
     cout << char(PAK);</pre>
     tab space();
     cout << char(PAK);
     SetConsoleTextAttribute(console, 2);
```

```
cout << char(S) << char(S) << char(S) << char(S) << char(S) << char(S);
 for (int j = 1; j <= 6; j++) {
  if (k + j == 5 \&\& k != 4 \&\& j != 6) {
   SetConsoleTextAttribute(console, 15);
   cout << "*";
  } else if (k + j != 5 && k != 4 && j != 6) {
   SetConsoleTextAttribute(console, 2);
   cout << char(S);</pre>
  ellipsymbol{} else if (k == 4 && j == 5) {
   SetConsoleTextAttribute(console, 15);
   cout << "*";
   SetConsoleTextAttribute(console, 2);
   tab_space();
   SetConsoleTextAttribute(console, 15);
   cout << "*";
   SetConsoleTextAttribute(console, 2);
   tab_space();
   cout << char(S) << char(S) << char(S) << char(S) << char(S);
   cout << char(PAK) << "\n";</pre>
  }
 }
 if (k != 4) {
  SetConsoleTextAttribute(console, 2);
  tab space();
  tab_space();
  cout << char(S) << char(S);</pre>
  cout << char(PAK) << "\n";</pre>
 }
}
for (int i = 4; i >= 0; i--) {
 SetConsoleTextAttribute(console, 15);
 cout << char(PAK);
 SetConsoleTextAttribute(console, 15);
 tab space();
 cout << char(PAK);</pre>
 SetConsoleTextAttribute(console, 2);
 tab space();
 for (int j = 1; j < 6; j++) {
  if (i + j == 5) {
   SetConsoleTextAttribute(console, 15);
   cout << "*";
  } else {
   SetConsoleTextAttribute(console, 2);
   cout << char(S);</pre>
  }
 SetConsoleTextAttribute(console, 2);
 tab_space();
 tab_space();
 cout << char(S) << char(S);</pre>
 cout << char(PAK) << "\n";</pre>
}
```

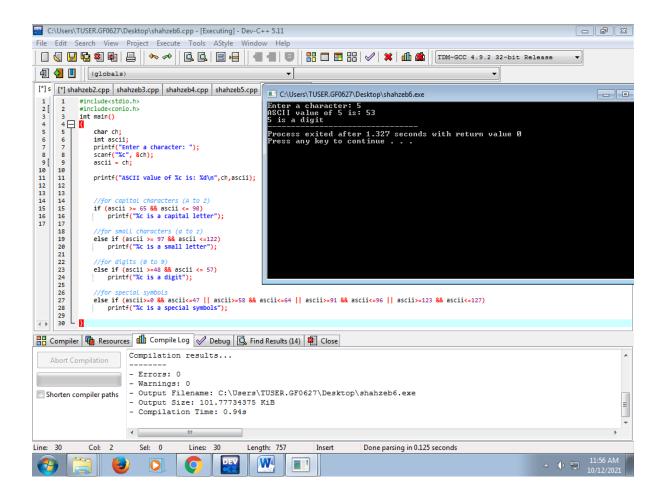
```
if (i == 6) {
    small_line_vertical();
    cout << "\n";
    }
    if (i == 7) {
        SetConsoleTextAttribute(console, 15);
        hor();
        hor();
    }
    }
};
main() {
    Pakistan data;
    data.logic();</pre>
```



```
#include <stdio.h>
int main() {
 int i, n;
 // initialize first and second terms
 int t1 = 0, t2 = 1;
 // initialize the next term (3rd term)
 int nextTerm = t1 + t2;
 // get no. of terms from user
 printf("Enter the number of terms: ");
 scanf("%d", &n);
 // print the first two terms t1 and t2
 printf("Fibonacci Series: %d, %d, ", t1, t2);
 // print 3rd to nth terms
 for (i = 3; i \le n; ++i) {
  printf("%d, ", nextTerm);
  t1 = t2;
  t2 = nextTerm;
  nextTerm = t1 + t2;
 }
 return 0;
```

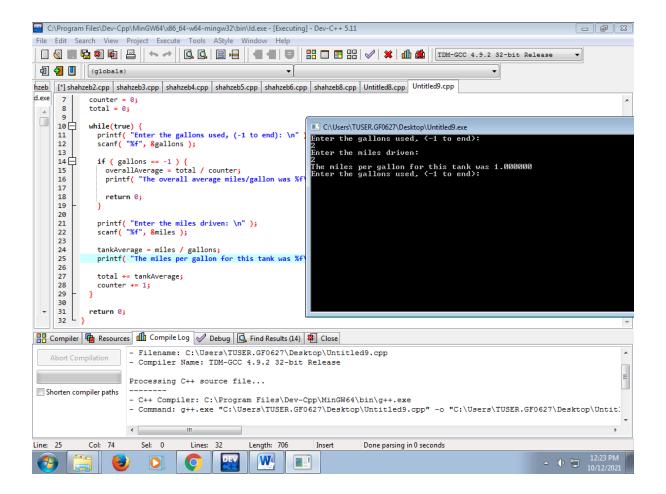


```
#include<stdio.h>
#include<conio.h>
int main()
{
  char ch;
  int ascii;
  printf("Enter a character: ");
  scanf("%c", &ch);
  ascii = ch;
  printf("ASCII value of %c is: %d\n",ch,ascii);
  //for capital characters (A to Z)
  if (ascii >= 65 && ascii <= 90)
    printf("%c is a capital letter");
  //for small characters (a to z)
  else if (ascii >= 97 && ascii <=122)
    printf("%c is a small letter");
  //for digits (0 to 9)
  else if (ascii >=48 && ascii <= 57)
    printf("%c is a digit");
  //for special symbols
  else if (ascii>=0 && ascii<=47 || ascii>=58 && ascii<=64 || ascii>=91 && ascii<=96 || ascii>=123 &&
ascii<=127)
    printf("%c is a special symbols");
}
```





```
#include <stdio.h>
#include <stdbool.h>
int main() {
 int counter;
 float gallons, miles, tankAverage, overallAverage, total;
 counter = 0;
 total = 0;
 while(true) {
  printf( "Enter the gallons used, (-1 to end): \n" );
  scanf( "%f", &gallons );
  if ( gallons == -1 ) \{
   overallAverage = total / counter;
   printf( "The overall average miles/gallon was %f\n", overallAverage );
   return 0;
  }
  printf( "Enter the miles driven: \n" );
  scanf( "%f", &miles );
  tankAverage = miles / gallons;
  printf( "The miles per gallon for this tank was %f\n", tankAverage );
  total += tankAverage;
  counter += 1;
 }
 return 0;
}
```





```
#include <stdio.h>
#include <stdlib.h>
int main()
{
  int acc;
  float bal, cha, cred, limit;
  while (acc!=-1){
    printf("Enter account number (-1 to end):");
    scanf("%d",&acc);
    if (acc==-1)
       break;
    printf("Enter beginning balance:");
    scanf("%f",&bal);
    printf("Enter total charges:");
    scanf("%f",&cha);
    printf("Enter total credits:");
    scanf("%f",&cred);
    printf("Enter credit limit:");
    scanf("%f",&limit);
    bal+=cha-cred;
    if (bal>limit){
    printf("account:\t%d\nCredit Limit:\t%.2f\nBalance:\t%.2f",acc,limit,bal);
       printf("\nCredit Limit Exceeded.\n\n");}
  }
  return 0;
}
```

