JOHNSON PRINCESS CHIAMAKA

18/SCI01/046

COMPUTER SCIENCE

CSC 206 ASSIGNMENT

C PROGRAMMING ASSIGNMENT

1. #include <stdio.h>

int main()

{

 int i;

 i=100;

 while(i>=1)

 {

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

 i=i-3;

 }

 system("pause");

 return 0;

}

1. #include <stdio.h>

int main()

{

 int n, i, flag = 0;

 printf ("enter a positive integer:");

 scanf("%d", &n);

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

 {

 //condition for non prime

 if (n % i == 0)

 {

 flag = 1;

 break;

 }

 }

 if (n == 1)

 {

 printf ("1 is neither prime nor composite");

 }

 {

 if (flag == 0)

 printf("%d is a prime number.", n);

 else

 prinf("%d is not a prime number.", n);

 }

 return 0;

}

1. #include <stdio.h>

int main()

{

 int c, n, f = 1;

 printf ("enter a number to calculate its factorial\n");

 scanf ("%d", &n);

 for (c = 1; c<= n; c++)

 f = f \* c;

 printf ("factorial of %d = %d\n", n, f);

 return 0;

}

1. #include <stdio.h>

int main()

{

 int i;

 i=50;

 while(i<=1000)

 {

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

 i=i+7;

 }

 system ("pause");

 return 0;

}

1. #include <stdio.h>

int main()

{

 char c;

 int lowercase, uppercase;

 printf("enter an alphabet: ");

 scanf("%c", &c);

 //evaluate to 1 if variable c is lowercase

 lowercase = (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u');

 //evaluate to 1 if variable is uppercase

 uppercase = (c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U');

 //evaluate to 1 if c is either lowercase or uppercase

 if (lowercase || uppercase)

 printf("%c is a vowel.", c);

 else

 printf("%c is a consonant.", c);

 return 0;

}

1. #include <stdio.h>

int main()

{

 int num; /\*to store number\*/

 int i; /\*loop counter\*/

 printf("enter an integer number: ");

 scanf("%d", &num);

 /\* initializing loop counter\*/

 i=1;

 /\*loop from 1 to 10\*/

 while (i<=10)

 {

 printf("%d\n", (num\*i));

 i++; /\*increase loop counter\*/

 }

 return 0;

}

1.
2. #include <stdio.h>

int main()

{

 int a, b, c, d, e, f, g, h, result ;

 printf("\ninput the first integer: ");

 scanf("%d", &a);

 printf("\ninput the second integer: ");

 scanf("%d", &b);

 printf("\ninput the third integer: ");

 scanf("%d", &c);

 printf("\ninput the forth integer: ");

 scanf("%d", &d);

 printf("\ninput the fifth integer: ") ;

 scanf("%d", &e);

 printf("\ninput the sixth integer: ");

 scanf("%d", &f) ;

 printf("\ninput the seventh integer: ");

 scanf("\%d", &g);

 printf("\ninput the eighth integer: ");

 scanf("%d", &h);

 result = a \* b \* c \* d \* e \* f \* g \* h ;

 printf("product of the above eight integer = %d\n", result);

 return 0;

}