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| 6.1 ) Write a program that reverse a number .  //1803117  #include<stdio.h>  int main()  {  int n,i,t=0;  printf("Enter a number :\n");  scanf("%d",&n);  for(; n>0;)  {  t=(t\*10)+(n%10);  n=n/10;  }  printf("%d\n",t);  return 0;  } | 6.2 ) Write a program that computes and prints a table of factorials for any given integer .  //1803117  #include<stdio.h>  #include<conio.h>  int main()  {  char ch;  int n,i,f=1,j;  for(;;){  f=1;  printf("Input an integer :\n");  scanf("%d",&n);  for(j=n;j>1;j--)  {  f=f\*j;  }  printf("\n %d! = %d\n",n,f);  printf("To Continue enter 1 otherwise 0 :\n");  ch=getche();  printf("\n");  if(ch=='0')  {  break; } }  return 0; } |
| 6.3 ) Write a program that compute the sum of the digits of a given integer number .  //1803117  #include<stdio.h>  int main()  {  int n,sum=0,i,t;  printf("Enter an integer :\n");  scanf("%d",&n);  t=n;  for(;n>0;)  {  sum=sum+(n%10);  n=n/10;  }  printf("\nsum of the digits of %d = %d\n",t,sum);  return 0;  } | 6.4 )Write a program that calculate and print the first m Fibonacci numbers .  //1803117  #include<stdio.h>  int main()  {  int n,sum=0,i,t;  printf("Enter an integer :\n");  scanf("%d",&n);  t=n;  for(;n>0;)  {  sum=sum+(n%10);  n=n/10;  }  printf("\nsum of the digits of %d = %d\n",t,sum);  return 0;  } | |

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| 6.6)write a program that evaluate the following investment equation .  and print the tables which would give the value of V for various combination .  //1803117  #include<stdio.h>  #include<math.h>  int main()  {  float p,r,v;  int n,i;  printf("Enter the value of principle amount,interest rate and years :\n");  scanf("%f %f %d",&p,&r,&n);  for(i=1;i<=n;i++)  {  v=p\*(1+r/100);  p=v;  }  printf("After %d years total money = %f\n",n,v);  return 0;  } | | 6.7)[a] Write a program that print the following outputs .  \* \* \* \* \*  \* \* \* \*  \* \* \*  \* \*  \*  //1803117  #include<stdio.h>  #include<math.h>  int main()  { int n,i,j,k;  printf("Enter the number of line :\n");  scanf("%d",&n);  for(i=0;i<n;i++){  for(j=i;j<=(2\*i);j++) {  printf(" ");  }  for(k=i;k<n;k++)  {  printf("\* ");  }  printf("\n");  }  return 0; } |
| 6.7)[b] Write a program that print the following outputs .  1  2 2  3 3 3  4 4 4 4  5 5 5 5 5  //1803117  #include<stdio.h>  int main()  { int n,i,j,k;  printf("Enter the number of line :\n");  scanf("%d",&n);  printf("\n");  for(i=1;i<=n;i++){  for(j=1;j<=i;j++) {  printf("%4d",i); }  printf("\n");  }  return 0;  } | | 6.8 )Write a program that read the age of 100 persons and count the number of persons in the age group 50 to 60 .  //1803117  #include<stdio.h>  int main()  {  int n,i,count=0;  for(i=1;i<=10;i++)  {  printf("Enter the age of person num %d : ",i);  scanf("%d",&n);  if(n>=50 && n<=60)  {  count++;  }  else  continue;  }  printf("Total person of age 50 to 60 = %d\n",count);  return 0;  } |
| 6.10) Write a program to print a table of values of the function y = exp (-x) . for x varying from 0.0 to 10.0 in steps of 0.10 .  //1803117  #include<stdio.h>  #include<math.h>  int main()  { double x=0.0,y;  int i;  for(;;){  y=pow(10,-x);  printf("x= %lf y= %lf\n",x,y);  x=x+0.1;  if(x>10)  break;  }  return 0;  } | 6.11) Write a program that will read a positive integer and determine and print its binary equivalent.  //1803117  #include<stdio.h>  int main()  { int n,t,a[100000],c=0,i;  printf("Enter an integer :\n");  scanf("%d",&n);  printf("\n");  for(i=0; n>0;i++) {  t=n%2;  n=n/2;  if(n>=0){  a[i]=t;  c++; } }  printf("Binary value = \n");  for(i=0;i<c;i++) {  printf("%d",a[c-i-1]);  }  return 0;  } |