|  |  |
| --- | --- |
| * 1. ) [1] .Write a program which reads a several distance and average speed and print time .   //1803117  #include<stdio.h>  int main()  {  int n,i=0;  float d,s,t;  printf("Input number of time :\n");  scanf("%d",&n);  while(i!=n)  {  printf("Input distence :\n");  scanf("%f",&d);  printf("Input speed :\n");  scanf("%f",&s);  t=d/s;  printf("Time = %f\n",t);  i++;  }  return 0;  } | * 1. [2] .Write a program that will decode messages that have been encoded using the code machine program in the second example .   //1803117  #include<stdio.h>  int main()  {  char a;  printf("Input message :\n");  a=getchar();  while(a!='\r')  {  printf("%c",a-1);  a=getchar();  }  return 0;  } |
| 3.5)[1]. Write a program that converts gallons to litters .Using do loop , allow the user to repeat the conversion .  //1803117  #include<stdio.h>  int main()  {  float g,l;  do{  printf("Input number of gallon unit :\n");  scanf("%f",&g);  l=g\*3.7854;  if(l>0)  printf("%f gallons = %f litters\n",g,l);  }while(g>0);  return 0;  } | * 1. [2] Write a program that displays the menu given below and uses a do loop to check for valid responses .   //1803117  #include<stdio.h>  int main()  {  char ch[][50]={"Enter addresses","Delete address","Search the list","Print the list","Quit"};  int i;  printf("Mailing list menu :\n");  for(i=0;i<5;i++)  {  printf("%d. %s\n",i+1,ch[i]);  }  do{  printf("Enter the number of your choice (1-5)\n");  scanf("%d",&i);  if(i>=1 && i<=5)  printf("%d. %s\n",i,ch[i-1]);  }while(i>=1 && i<=5);  return 0;  } |

|  |  |
| --- | --- |
| 3.6) [1] . Write a program that finds all the prime numbers between 2 and 1000 .  //1803117  #include<stdio.h>  #include<math.h>  int main()  {  int i,j;  printf("Prime number between 2 to 1000 :\n");  for(i=2;i<=1000;i++)  {  for(j=2;j<=sqrt(i);j++)  {  if(i%j==0)  break;  }  if(j>sqrt(i))  {  printf("%d\n",i);}  }  return 0;  } | * 1. )[2] .Write a program that reads ten characters . Each time a character is read , use it ASCII code value to output a string of periods equal in number to this code . For Example given the letter ‘’ A” ,whose code 65 ,your program would output 65 periods .   //1803117  #include<stdio.h>  #include<conio.h>  int main()  {  char ch;  int i,j;  for(i=1;i<=10;i++)  { printf("Input a charecter :\n");  ch=getche();  printf("\n");  printf("%c's ASCII Code = %d so its equivalent periods :\n",ch,ch);  for(j=0;j<ch;j++)  {  printf(".");  }  printf("\n");  }  return 0;  } |
| * 1. ) [2] Write a program that prints a table showing the proper amount of tip to leave .Start the table at $1 and stop at $100 ,using increments of $1 ,compute three tip percentages :10% ,15% ,and 20% .After each line , ask the user if he wants to continue .If not use break .   //1803117  #include<stdio.h>  int main()  {  int i,j;  float a,b,c,d;  printf("Compute Tip :\n");  for(i=1;i<=100;i++)  { d=i;  a=(i+i)\*.1;  b=(i+i)\*.15;  c=(i+i)\*.2;  printf("%f %f %f %f\n",d,a,b,c);  printf("If you want continue press 1 or 0 :\n");  scanf("%d",&j);  if(j==1) continue;  else if(j==0) break; }  return 0 ; } | * 1. ) [1] Write a program that prints only the odd numbers between 1 and 100 . Use for loop .   //1803117  #include<stdio.h>  int main()  {  int i;  printf("Odd number between 1 and 100 :\n");  for(i=1;i<=100;i++)  {  if(i%2!=0)  printf("%d\n",i);  }  return 0;  } |

|  |  |
| --- | --- |
| 3.9)[2] . Write a program to count the numbers of letters , digit and common punctuation symbols entered by the user .Stop when press Enter .Use switch to categorize the character .  //1803117  #include<stdio.h>  #include<conio.h>  int main()  {  char ch;  int d=0,p=0,l=0;  for(;ch!='\r';)  {  ch=getche();  switch(ch)  {  case '0':  case '1':  case '2':  case '3':  case '4':  case '5':  case '6':  case '7':  case '8':  case '9':  d++;  break;  case ',':  case '.':  case '?':  case '!':  case ';':  case ':':  case '|':  case '/':  p++;  break;  default :  l++;  break;  }  }  printf("\nDigits : %d\nPunctuation :%d\nLetters :%d\n",d,p,l);  return 0;  } | 3.10)[1] Write a program that uses goto to emulate a while loop that counts from 1 to 10 .  //1803117  #include<stdio.h>  int main()  {  int i=1;  count :  if(i<=10)  {  printf("%d\n",i);  i++;  goto count;  }  return 0;  } |

***\*\*\*\*\*\*Mastery Skills Check \*\*\*\*\*\*\*\*\*\* (page- 101-103)***

|  |  |
| --- | --- |
| 1] Write a program to convert lowercase letter to uppercase letter continuously . To stop press Enter .  //1803117  #include<stdio.h>  #include<conio.h>  int main()  {  char c;  int i;  while(1)  {  printf("Enter a small letter to Convert capital letter or to stop press Enter button:\n");  c=getche();  printf("\n");  if(c=='\r')  break;  else  c=c-32;  printf("%c\n",c);  }  return 0;  } | Page 103. [ 1] Write a program that reads characters from the keyboard and watches for tabs,newlines , and backspace .Display what it is in word when press anyone of this .To stop press ‘q’ .  //1803117  #include<stdio.h>  #include<conio.h>  int main()  {  char c;  while(1)  {  c=getche();  if(c=='q')  {break;}  switch(c)  {  case '\t': printf("Tab\n");  break;  case '\r':printf("Newline\n");  break;  case '\b':printf("Backspace\n");  break;  }  }  return 0;  } |