***EXERCISES – 7.1 (Page -206)***

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| 1. Write a program that creates a   function , called **avg() ,**that reads floating – point numbers entered by the user and returns their average . Without function prototype .  //1803117  #include<stdio.h>  float avg**();**  int main()  {  printf("Average = %.2f\n",avg());  return 0;  }  float avg**()**  {  int i;  float a[10],sum=0,ava;  printf("Enter 10 numbers :\n");  for(i=1;i<=10;i++)  {  scanf("%f",&a[i]);  sum=sum+a[i];  }  ava=sum/10;  return ava; } | 1. Write a program that creates a   function , called **avg() ,**that reads floating – point numbers entered by the user and returns their average . With function prototype .  //1803117  #include<stdio.h>  float avg**(void);**  int main()  {  printf("Average = %.2f\n",avg());  return 0;  }  float avg(**void**)  {  int i;  float a[10],sum=0,ava;  printf("Enter 10 numbers :\n");  for(i=1;i<=10;i++)  {  scanf("%f",&a[i]);  sum=sum+a[i];  }  ava=sum/10;  return ava; } |

***Exercises – 7.2(Page -211 )***

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| 1.Write a function , called fact() , that  Uses recursion to compute the factorial of its integer argument .  //1803117  #include<stdio.h>  int fact(int n);  int main()  {  int n;  printf("Enter a positive number :\n");  scanf("%d",&n);  printf("Factorial of %d is = %d",n,fact(n));  return 0;  }  int fact(int n)  {  if(n==0)  return 1;  else  return n\*fact(n-1);  } | 1. Write a program that display a string on the screen , one character at a time , using a recursive function   //1803117  #include<stdio.h>  void str(char \*c);  int main()  {  str("This is an example of Recursion");  return 0;  }  void str(char \*c)  {  if(\*c)  {  printf("%c",\*c);  str(++c);  }  } |