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Question1
#include<stdio.h>
int main()
  int marks;
  // Program to Find Grade of a Student Using Switch Case
  printf("\nEnter The Marks Between 0 To 100:");
  printf("\nEnter The Mark: ");
  scanf("%d", &marks);
  if(marks>100)
  //Marks greater than 100
  printf("\nEnter your Marks Between Limit\n");
  else
  switch(marks/10)
    case 10:
    case 9:
      // Marks between 90-100
      printf("\n Your Grade is: A+");
      break;
    case 8:
       // Marks between 80-89
      printf("\n Your Grade is: A" );
      break;
    case 7:
      // Marks between 70-79
      printf("\n Your Grade is: B+" );
      break:
    case 6:
      //Marks between 60-69
      printf("\n Your Grade is: B" );
      break;
    case 5:
       // Marks between 50-59
      printf("\n Your Grade is: C+" );
      break;
    case 4:
      // Marks between 40-59
      printf("\n Your Grade is: C");
      break;
    case 3:
       // Marks between 30-39
       printf("\n Your Grade is: C");
    default:
      // Marks less than 30
      printf("\n You Grade is: F or Fail\n");
```

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}
  return 0;
Question2
#include <stdio.h>
int main()
  char a;
  printf("Enter a character: ");
  scanf("%c",&a);
  //condition to check character is alphabet or not
  if((a>='A' \&\& a<='Z') || (a>='a' \&\& a<='z'))
     //check for VOWEL or CONSONANT
     switch(a)
       case 'A':
       case 'E':
       case 'I':
       case 'O':
       case 'U':
       case 'a':
       case 'e':
       case 'i':
       case 'o':
       case 'u':
          printf("%c is a vovel.\n",a);
          break;
       default:
          printf("%c is a consonant.\n",a);
     }
  }
  else
     printf("%c is not an alphabet.\n",a);
   }
  return 0;
}
```

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Question3
#include <stdio.h>
int main(){
int amount;
int debit;
int Credit;
int mainbalance;
int Option;
printf("Deposit your initial amount : ");
scanf("%d", &amount);
if(amount > 1000){
printf("1. Credit \n");
printf("2. Debit \n");
printf("1. Balance enquiry \n");
printf("Enter your option : ");scanf("%d", &Option);
switch(Option){
case 1:
printf("Enter the amount you want to credit : ");
scanf("%d", &Credit);
mainbalance = amount + Credit;
printf("Your bank balance is : %d", mainbalance);
break;
case 2:
printf("Enter the amount you want to debit : ");
scanf("%d", &debit);
mainbalance = amount - debit;
if(mainbalance < 0){
printf("Your bank balance is zero");
}
else{
printf("Your bank balance is : %d", mainbalance);
break;
case 3:
printf("Your bank balance is : %d", amount);
break;
default:
printf("Your option is out of choice");
}
}
else{
printf("Your initial amount is not enough to deposit");
}
```

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Question4
Question4
#include <stdio.h>
int checksize(intType,floatType,doubleType,charType,shortType,longType)
int intType;
float floatType;
double doubleType;
char charType;
short shortType;
long longType;
// sizeof evaluates the size of a variable
printf("Size of int: %ld bytes\n", sizeof(intType));
printf("Size of float: %ld bytes\n", sizeof(floatType));
printf("Size of double: %ld bytes\n", sizeof(doubleType));
printf("Size of char: %ld byte\n", sizeof(charType));
printf("Size of short: %ld byte\n", sizeof(shortType));
printf("Size of long: %ld byte\n", sizeof(longType));
int checksignedsize(charType1,longType1,shortType1)signed short shortType1;
signed long longType1;
signed char charType1;
printf("Size of signed-short: %ld bytes\n", sizeof(shortType1));
printf("Size of signed-long: %ld bytes\n", sizeof(longType1));
printf("Size of signed-char: %ld byte\n", sizeof(charType1));
int main(){
int intType;
float floatType;
double doubleType;
char charType;
short shortType;
long longType;
signed short shortType1;
signed char charType1;
signed long longType1;
checksize();
checksignedsize();
```