

### Question1

```
#include <stdio.h>
int main(){
    int marks;
    printf("Enter your marks out of 100 :");
    scanf("%d", &marks);
    if(marks > 0 || marks <= 100){
        switch(marks/10){
            case 10:
                printf("Grade A+\n");
                break;
            case 9:
                printf("Grade A+\n");
                break;
            case 8:
                printf("Grade A\n");
                break;
            case 7:
                printf("Grade B+\n");
                break;
            case 6:
                printf("Grade B\n");
                break;
            case 5:
                printf("Grade C+\n");
                break;
            case 4:
                printf("Grade C\n");
                break;
            case 3:
                printf("Grade D\n");
                break;
            case 2:
                printf("Grade F\n");
                break;
            case 1:
                printf("Grade F\n");
                break;
            default:
                printf("Grade F\n");
        }
    }
    else{
        printf("Your marks is invalid");
    }
}
```

### Question2

```
#include <stdio.h>
int main(){
    char vowel;
    printf("Enter any alphabet to check vowel sound : ");
```

```

scanf("%c", &vowel);
switch(vowel){
    case 'A':
        printf("The alphabet is vowel sound");
        break;
    case 'a':
        printf("The alphabet is vowel sound");
        break;
    case 'E':
        printf("The alphabet is vowel sound");
        break;
    case 'e':
        printf("The alphabet is vowel sound");
        break;
    case 'I':
        printf("The alphabet is vowel sound");
        break;
    case 'i':
        printf("The alphabet is vowel sound");
        break;
    case 'O':
        printf("The alphabet is vowel sound");
        break;
    case 'o':
        printf("The alphabet is vowel sound");
        break;
    case 'U':
        printf("The alphabet is vowel sound");
        break;
    case 'u':
        printf("The alphabet is vowel sound");
        break;
    default:
        printf("The given alphabet is consonant sound");
}
}

```

### 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");
}
}

```

#### 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 checksignedsized(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();
    checksignedsized();
}
```