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For Assignment

Question 1:-

Calculator

```
int main() {
  int n1, n2, operation, opt;
do {
  printf("Enter which operation: \n 1. ADD \n2. SUBTRACT \n 3. MUITIPLY \n
    4. DIVIDE");
  scanf("%d", &operation);
  printf("Enter n1");
  scanf("%d" &n1);
  printf("Enter n2 ");
  scanf("%d" &n2);

 if (operation == 1) {
     printf("Answer = %d \n", n1+n2) }
 elseif (operation == 2){
     printf("Answer = %d \n", n1-n2)}
 else if (operation == 3) {
     printf("Answer = %d \n", n1 * n2)}
 elseif (operation == 4) {
     if (n2 == 0) {
       printf("Division by 0 not allowed");
       else {
       printf("Answer = %d \n", n1/n2)}
```

```
else {
  printf ("Invalid Choice \n"); }

printf ("Do you wish to continue? \n 0: Cont. \n 1: Terminate \n");
 scanf ("%d , &opt);
 }
 while (opt != 1);
}
```

Question 2:-

Student Grade Calculator

```
int main (){
  int nSub, marks, tmarks = 0;
  char OverallGrade;
  printf("How many subjects marks do you want to add ? ");
  scanf ( "%d", &nSub );
  if (nSub <= 0)
   {printf ("Invalid Input "); }
 for (int i = 0 ; i < nSub ; i++)
 {  printf("Enter Marks: ");
    scanf ("%d \n", &marks);
    if (marks < 55)
     printf("Fail");
     elseif (marks >= 55 && marks < 65)
     printf ("C+");
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```
elseif (marks >= 65 && marks < 75)
    printf ("B");
elseif (marks >= 75 && marks < 85)
    printf ("B+");
elseif (marks >= 85 && marks < 95)
    printf ("A");
elseif (marks >= 95 && marks <= 100)
    printf ("A+");
else
    print ("Invalid");
totaltmarks += marks

If (tmarks < (nSub x 55)
    Overallgrade = "F";
elseif (tmarks < (nSub x 65)
    OverallGrade = "C";
elseif (tmarks < (nSub x 75)
    OverallGrade = "B";
elseif (tmarks < (nSub x 85)
    OverallGrade = "B+";
elseif (tmarks < (nSub x 95)
    OverallGrade = "A";
else
    Overall Grade = "A+";
printf ("%d", OverallGrade)
```

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Question 3:-

Temperature Conversion tool

```
int main(){
    int choice;
    float temp, conf;
    printf("Temperature Conversion Menu: \n 1. Celsius to Fahrenhiet \n
    2. Fahrenhiet to Celsius \n 3. Celsius to Kelvin \n 4. Kelvin to Celsius
    \n 5. Fahrenhiet to Kelvin \n 6. Kelvin to Fahrenhiet ")
    scanf("%d", &choice);

    printf("Enter temperature")
    scanf("%f", &temp)

    switch (choice){
      case 1:
          printf("%f", (temp * 9/5)+32);
          break;
      case 2:
          printf("%f", (temp-32) x 5/9);
          break;
      Case 3:
          printf("%f", temp+273);
          break;
      Case 4:
          printf("%f", temp-273);
          break;
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Case 5:

```
printf("%.f",((temp-32)x5/9)+273);
break;
```

Case 6:

```
printf("%f",((temp-273)+9/5)+32);
break;
```

default:

```
printf("Invalid choice");
```

Question 4:-

Resturant Ordering System

```
int main()
{ const int P=1500, F=50, B=300, N=500, Bu=500;
  int quantity, opt, stop=0, newPrice=0, count=0, totalBill=0

  printf("\t The menu is: \n1. Pizza \t 1500 \n2. Fries \t 50\n3.
  Biryani \t 300 \n 4. Nihri \t 500\n 5. Burger \t500");

  while(stop==0)
  { printf("\n Which option do you choose? ");
    scanf("%d",&opt);
    printf("How much do you want to order? ");
    scanf("%d", &quantity);
   switch(opt)
    {
```

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```
case 1:
    newPrice = P x quantity
    printf("%d Pizza is of %d\n", quantity, newPrice);
    break;
case 2:
    newPrice = F x quantity;
    printf("%d Fries is of %d\n", quantity, newPrice);
    break;
case 3:
    newPrice = B x quantity;
    printf("%d Biryani is of %d\n", quantity, newPrice);
    break;
case 4:
    newPrice = N x quantity;
    printf("%d Nihari is of %d\n", quantity, newPrice)
    break;
case 5:
    newPrice = Bu x quantity;
    printf("%d Burger is of %d), quantity, newPrice);
    break;
default:
    printf("Invalid Input"); }
    totalBill += newPrice
    printf("\n Do you wish to order more? \n 0: Continue \n
    1: No \n");
    scanf("%d", &stop);
    count++;
if (stop == 1)
{ printf("The bill is: \n");
    printf("%d", totalBill); }
```