ASSINGMENT: LIFTSOFFC

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BRANCH: CHEMICAL ENGINEERING

SECTION: A

VSSUT BURLA

```c
#include <stdio.h>
 int main()
{
 int p, q;
 int sum, sub, mul, mod;
float div;
 /** Input two numbers from user **/
 printf("Enter any two numbers::\n");
 scanf("%d%d", &p, &q, "\n");
/** Perform all arithmetic operations **/
sum = p + q;
 sub = p - q;
 mul = p * q;
div = (float)p / q;
mod = p % q;
 /** Print result of all arithmetic operations **/
printf("\n");
printf("SUM %d + %d = %d\n", p, q, sum);
printf("DIFFERENCE %d - %d = %d\n", p, q, sub);
printf("PRODUCT %d * %d = %d\n", p, q, mul);
printf("QUOTIENT %d / %d = %f\n", p, q, div);
printf("MODULUS %d %% %d = %d\n", p, q, mod);
return 0;
 }
```

2.
```c
#include <stdio.h>
int main()
 {
 float celsius, fahrenheit;
 /* Input temperature in celsius */
 printf("Enter temperature in Celsius: ");
 scanf("%f", &celsius);
 /* celsius to fahrenheit conversion formula */
fahrenheit = (celsius * 9 / 5) + 32;
 printf("%.2f Celsius = %.2f Fahrenheit", celsius,
fahrenheit);
 return 0;
}
```

3.
```
#include <stdio.h>
int main()
{
float radius, diameter, circumference, area;
/* * Input radius of circle from user */
 printf("Enter radius of circle: ");
scanf("%f", &radius);
 /* * Calculate diameter, circumference and area **/
diameter = 2 * radius; circumference = 2 * 3.14 *
radius;
area = 3.14 * (radius * radius);
/* * Print all results */
printf("Diameter of circle = %.2f units \n",
diameter);
printf("Circumference of circle = %.2f units \n",
circumference);
printf("Area of circle = %.2f sq. units ", area);
return 0;
}
```

```
#include <stdio.h>
int main()
 {
int phy, chem, bio, math, comp;
float per;
/* Input marks of five subjects from user */
printf("Enter five subjects marks: ");
scanf("%d%d%d%d%d", &phy, &chem, &bio, &math,
&comp);
 /* Calculate percentage */
 per = (phy + chem + bio + math + comp) / 5.0;
printf("Percentage = %.2f\n", per);
/* Find grade according to the percentage */
 if(per >= 90)
{
 printf("Grade A");
}
else if(per >= 80)
{
printf("Grade B");
}
else if(per >= 70)
{
printf("Grade C");
```

```
{
printf("Grade C");
 }
else if(per >= 60)
{
printf("Grade D");
}
else if(per >= 40)
{
printf("Grade E");
}
else { printf("Grade F");
 }
return 0;
}
```

```
#include <stdio.h>
 int main()
 {
 char ch;
/* Input an alphabet from user */
printf("Enter any alphabet: ");
 scanf("%c", &ch);
/* Switch value of ch */ switch(ch)
 {
case 'a': printf("Vowel");
break;
 case 'e': printf("Vowel");
break;
case 'i': printf("Vowel");
 break;
case 'o': printf("Vowel");
 break;
case 'u': printf("Vowel");
break;
case 'A': printf("Vowel");
break;
 case 'E': printf("Vowel");
 break;
case 'I': printf("Vowel");
```

```
 break;
case 'I': printf("Vowel");
break;
case 'O': printf("Vowel");
 break;
case 'U': printf("Vowel");
break;
default: printf("Consonant");
}
return 0;
}
```