Assignment 2

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EX1:
#include <stdio.h>
#include <stdlib.h>
int main()
  int num;
  printf("Enter an integer you want to check: ");
  scanf("%d", &num);
  if(num\%2 == 0)
    printf("%d is even\n", num);
  else
    printf("%d is odd\n", num);
  return 0;
}
EX2:
#include <stdio.h>
#include <stdlib.h>
int main()
  char num;
  printf("Enter an alphabet: ");
  scanf("%c", &num);
  switch(num)
  case 'a':
  case 'A':
  case 'e':
```

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case 'E':
  case 'i':
  case 'I':
  case 'o':
  case 'O':
  case 'u':
  case 'U':
    printf("%c is a vowel", num);
    break;
  default:
    printf("%c is a consonant", num);
  return 0;
}
EX3:
#include <stdio.h>
#include <stdlib.h>
int main()
  float num1, num2, num3;
  printf("Enter 3 numbers: ");
  scanf("%f %f %f",&num1, &num2, &num3);
  (num1>num2&&num1>num3)?printf("largest number is:
%f",num1):((num2>num1&&num2>num3)?printf("largest number is:
%f",num2):printf("largest number is: %f",num3));
  return 0;
}
EX4:
#include <stdio.h>
#include <stdlib.h>
int main()
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float num;
  printf("enter a number: ");
  scanf("%f", &num);
  if(num>0)
    printf("%f is positive",num);
  else if(num<0)
    printf("%f is negative",num);
  else
    printf("you entered Zero");
    return 0;
}
EX5:
#include <stdio.h>
#include <stdlib.h>
int main()
  char num;
  printf("Enter a character: ");
  scanf("%c", &num);
  if((num >= 'A' \&\& num <= 'Z')||(num >= 'a' \&\& num <= 'z'))
    printf("%c is an Alphabet", num);
  else
```

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printf("%c is not an Alphabet", num);
    return 0;
}
Ex6:
#include <stdio.h>
#include <stdlib.h>
int main()
  unsigned int num, i, sum=0;
  printf("enter a number: ");
  scanf("%d", &num);
  for(i=1; i \le num; i++)
    sum += i;
  printf("sum = %d", sum);
    return 0;
}
EX7:
#include <stdio.h>
#include <stdlib.h>
int main()
  int num, i, fact=1;
  printf("enter a number: ");
  scanf("%d", &num);
  if(num<0)
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printf("Error!!! factorial of negative number doesn't exist");
  else
  for(i=1; i<=num; i++)
    fact *= i;
  printf("factorial = %d", fact);
    return 0;
}
EX8:
#include <stdio.h>
#include <stdlib.h>
int main()
  float num1,num2,result;
  char op;
  printf("enter an operator (+,-,*,/): ");
  scanf("%c", &op);
  printf("enter 2 operands: ");
  scanf("%f %f", &num1, &num2);
  switch(op)
  case '+':
    result = num1 + num2;
    printf("%.1f %c %.1f = %.1f", num1, op, num2, result);
    break;
  case '-':
    result = num1 - num2;
    printf("%.1f %c %.1f = %.1f", num1, op, num2, result);
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break;
  case '*':
    result = num1 * num2;
    printf("%.1f %c %.1f = %.1f", num1, op, num2, result);
    break;
  case '/':
    if(num2 == 0)
       printf("division by 0 is not possible!!!\n");
    else
       result = num1 / num2;
       printf("%.1f %c %.1f = %.1f", num1, op, num2, result);
    }
    break;
  default:
    printf("wrong operator!!!");
    break;
  }
   return 0;
}
```